

**TRANSPORTATION • MUNICIPAL
DEVELOPMENT • ENVIRONMENTAL**
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920-887-4242 1-800-552-6330 Fax: 920-887-4250
Web Address: www.mnse-pb.com
MGA PROFESSIONAL SERVICES

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PROFESSIONAL SERVICES

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BENCHMARK TABLE

BM. NO.	STATION	DESCRIPTION	ELEV.
6	8+73, 0' RT.	BRASS CAP IN CONCRETE (FOREST AVE.)	786.23
16	16+78.6, 0' RT.		784.02

DATUM = NAVD 88

CONTROL POINT #32
PK NAIL
N EDGE OF PAVEMENT
N 385666.66
E 803584.72
ELEV. 798.05

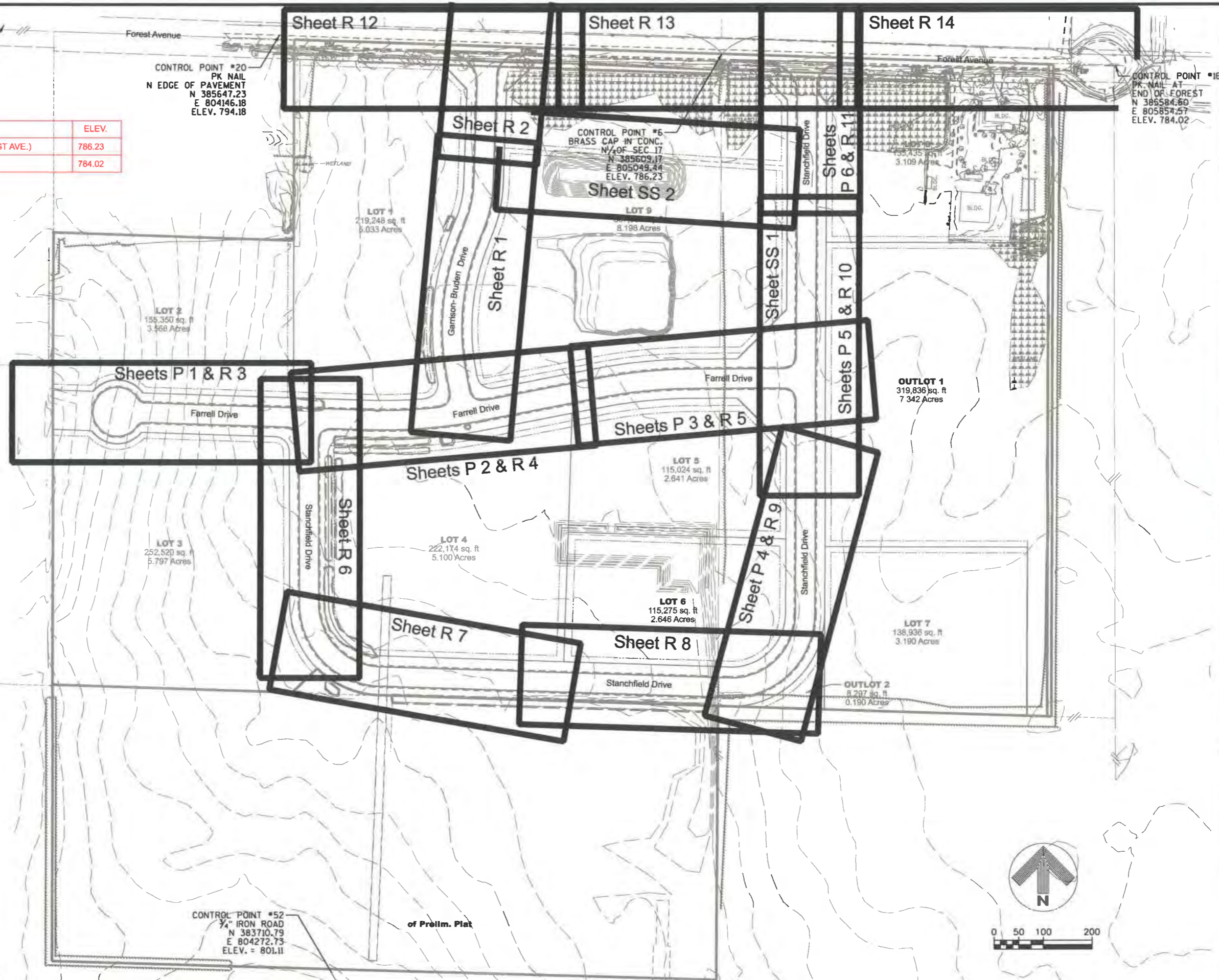
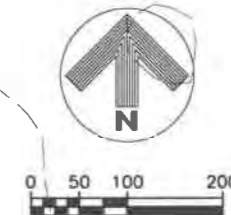
CONTROL POINT #20
PK NAIL
N EDGE OF PAVEMENT
N 385647.23
E 804146.18
ELEV. 794.18

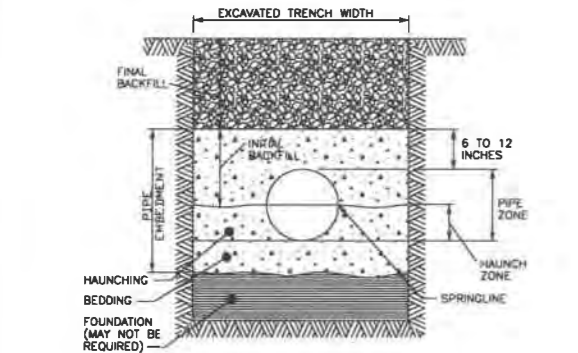
CONTROL POINT #16
PK NAIL AT
END OF FOREST
N 385584.60
E 805854.57
ELEV. 784.02

CONTROL POINT #5
BRASS CAP IN CONC.
N 40' OF SEC. 17
N 385609.17
E 805049.44
ELEV. 786.23

CONTROL POINT #52
1/4" IRON ROAD
N 383710.79
E 804272.73
ELEV. = 801.11

of Prelim. Plat

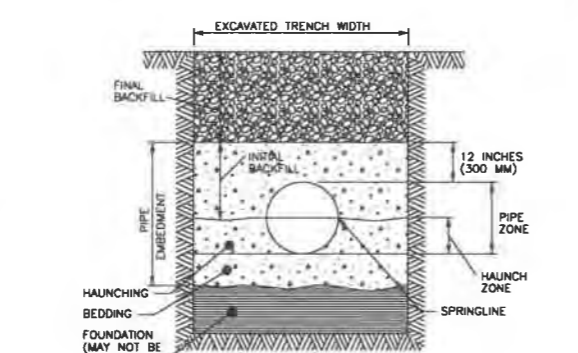




- GENERAL NOTES:
1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO ASTM D2321
 2. CLASS 1A EMBEDMENT MATERIAL SHALL BE CLEAN, OPEN GRADED CRUSHED STONE, ROCK OR GRAVEL (3/4" CLEAR STONE).
 3. CLASS 1 MATERIAL IS SUITABLE AS FOUNDATION AND FOR REPLACING OVER-EXCAVATED AND UNSTABLE TRENCH BOTTOM. INSTALL AND COMPACT IN 6-INCH MAXIMUM LAYERS
 4. INSTALL BEDDING IN 6-INCH MAXIMUM LAYERS. LEVEL FINAL GRADE BY HAND. MINIMUM DEPTH 4 INCH (6 INCH IN ROCK CUTS)
 5. INSTALL AND COMPACT HAUNCHING IN 6-INCH MAXIMUM LAYERS. WORK IN AROUND PIPE BY HAND TO PROVIDE UNIFORM SUPPORT.
 6. INSTALL AND COMPACT INITIAL BACKFILL TO A MINIMUM OF 6 INCH ABOVE PIPE CROWN
 7. EMBEDMENT COMPACTION: CLASS 1A: PLACE AND WORK BY HAND TO INSURE ALL EXCAVATED VOIDS AND HAUNCH AREAS ARE FILLED. FOR HIGH DENSITIES USE VIBRATORY COMPACTORS

CLASS I - SANITARY PIPE EMBEDMENT DETAIL

SCALE: NONE

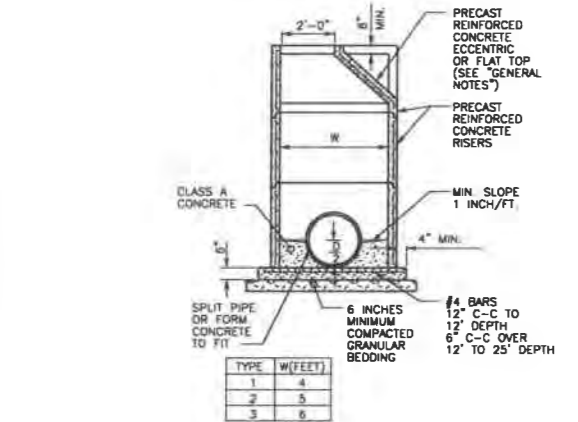


- GENERAL NOTES:
1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO ASTM D2321.
 2. CLASS II EMBEDMENT MATERIAL SHALL BE SCREENINGS (CRUSHED STONE W/FINES) SCREENINGS SHALL MEET THE FOLLOWING GRADATION:

U.S. STANDARD SIEVE SIZE	PERCENT BY WEIGHT PASSING
3/4 IN.	100
3/8 IN.	70-90
#4	55-85
#10	45-75
#40	20-50
#100	0-10
#200	0-5
 3. INSTALL SCREENINGS IN TRENCH BOTTOM, LEVEL TO APPROX GRADE, AND COMPACT BY HAND WITH A VIBRATORY COMPACTOR. INSTALL AND COMPACT HAUNCHING IN 6-INCH MAXIMUM LAYERS. WORK BEDDING MATERIAL AROUND PIPE BY HAND TO PROVIDE UNIFORM SUPPORT. SET WATER PIPE ON TOP OF THE COMPACTED BEDDING, THEN PLACE THE TOP LAYER OF BEDDING ON AND AROUND THE PIPE TO A DEPTH OF 12" OVER THE PIPE. LASTLY LEVEL BEDDING AND AGAIN COMPACT BY HAND WITH A VIBRATORY COMPACTOR
 4. INSTALL AND COMPACT INITIAL BACKFILL TO A MINIMUM OF 12 INCHES ABOVE PIPE CROWN
 5. EMBEDMENT COMPACTION: EMBEDMENT COMPACTION SHALL HAVE A MINIMUM 95% MODIFIED PROCTOR FOR THE BEDDING SECTION. MINIMUM 90% MODIFIED PROCTOR FOR THE HAUNCHING AND INITIAL BACKFILL SECTION

CLASS II - WATER PIPE EMBEDMENT DETAIL

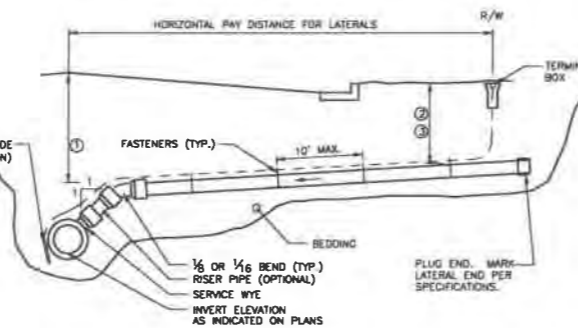
SCALE: NONE



- GENERAL NOTES:
1. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL CONDITIONS
 2. DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH
 3. PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH WHICH MEETS THE REQUIREMENTS FOR GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE
 4. ECCENTRIC CONE TOPS SHALL BE USED ON ALL STRUCTURES 5 FEET OR GREATER IN DEPTH, AND FLAT TOPS SHALL BE USED ONLY ON STRUCTURES LESS THAN 5 FEET IN DEPTH, UNLESS DIRECTED BY THE ENGINEER.
 5. PRECAST REINFORCED CONCRETE RISERS MAY BE PLACED WITH TONGUE UP OR DOWN
 6. ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199
 7. DROP CONNECTIONS SHALL BE USED WHEN THE PIPE INVERT IS MORE THAN 2 FEET ABOVE THE MANHOLE INVERT
 8. PRECAST STRUCTURE MANWAY CLEAR OPENING SHALL MATCH CASTING - REFER TO STANDARD SPECIFICATION DIVISION 33 AND THE APPLICABLE SPECIAL CONDITIONS.
 - OPENING SHALL BE 24" FOR R-1550 CASTINGS
 - OPENING SHALL BE 27" FOR R-1842 CASTINGS

PRECAST REINFORCED CONCRETE MANHOLE DETAIL

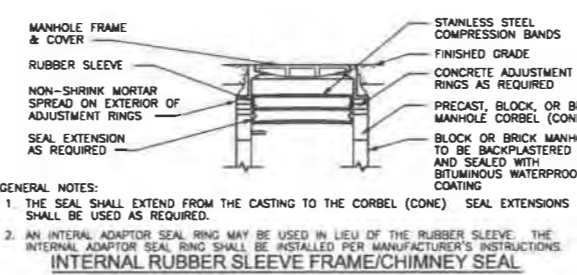
SCALE: NONE



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 - OPENING SHALL BE 27" FOR R-1842 CASTINGS

SANITARY SEWER LATERAL DETAIL

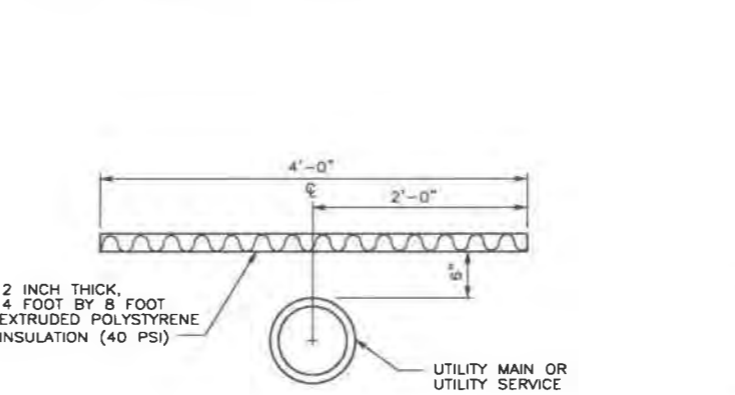
SCALE: NONE



MANHOLE WATERPROOFING DETAIL

SCALE: NONE

- GENERAL NOTES:
1. THE SEAL SHALL EXTEND FROM THE CASTING TO THE CORBEL (CONE). SEAL EXTENSIONS SHALL BE USED AS REQUIRED.
 2. AN INTERNAL ADAPTOR SEAL RING MAY BE USED IN LIEU OF THE RUBBER SLEEVE. THE INTERNAL ADAPTOR SEAL RING SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

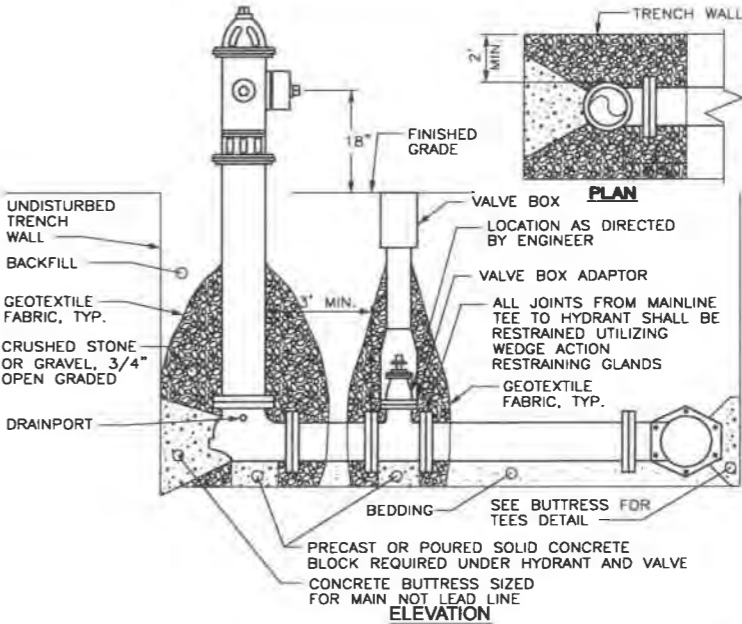


STANDARD INSTALLATION

SCALE: NONE

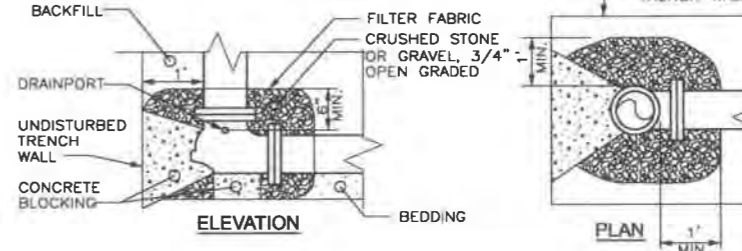
PIPE INSULATION DETAIL

SCALE: NONE



IMPERVIOUS SOIL SUMP DETAIL

SCALE: NONE

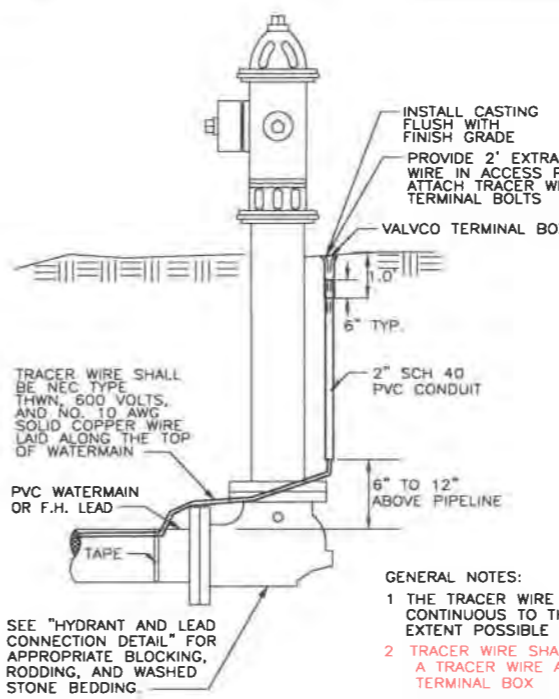


PERVIOUS SOIL SUMP DETAIL

SCALE: NONE

HYDRANT AND LEAD CONNECTION DETAIL

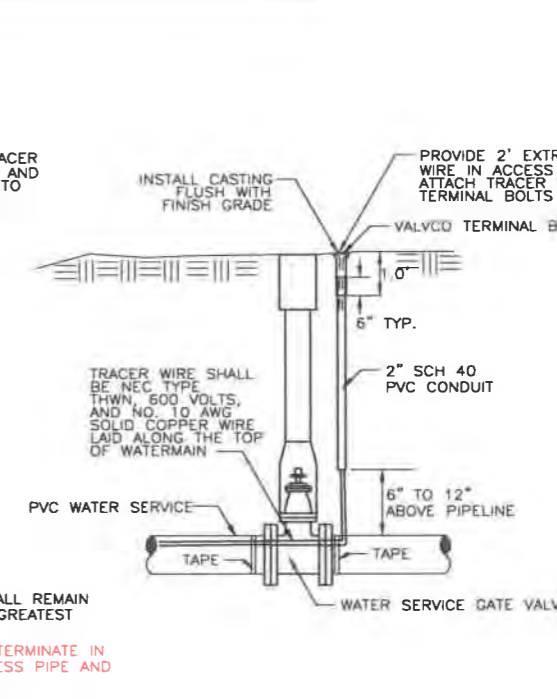
SCALE: NONE



- GENERAL NOTES:
1. THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE
 2. TRACER WIRE SHALL TERMINATE IN A TRACER WIRE ACCESS PIPE AND TERMINAL BOX
 3. A TERMINAL BOX (VALVCO OR APPROVED EQUAL) SOLVENT WELDED TO A 2-INCH SCH. 40 PVC CONDUIT SHALL BE INSTALLED AT BACK OF EACH HYDRANT AND WATER SERVICE GATE VALVE

TRACER WIRE INSTALLATION FOR PVC WATERMAIN DETAIL

SCALE: NONE



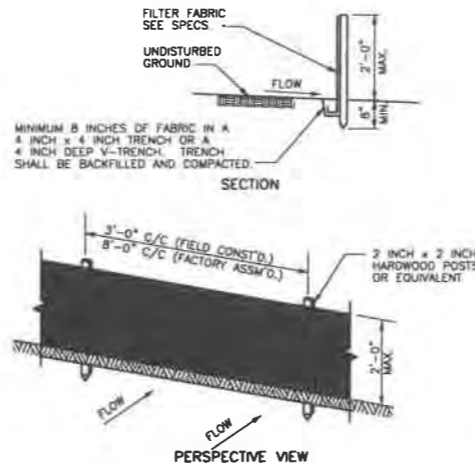
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TRACER WIRE INSTALLATION FOR PVC WATERMAIN DETAIL

SCALE: NONE

CONSTRUCTION SITE
EROSION CONTROL REQUIREMENTS

- SECTION NR216.46 OF WISCONSIN STATE ADMINISTRATIVE CODE IDENTIFIES REQUIREMENTS FOR CONSTRUCTION SITE AND POST-CONSTRUCTION EROSION CONTROL. IT IS THE INTENT OF THESE PLANS TO SATISFY THESE REQUIREMENTS. THE METHODS AND STRUCTURES USED TO CONTROL EROSION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL IMPLEMENT AN APPROPRIATE MEANS OF CONTROLLING EROSION DURING SITE OPERATION AND UNTIL THE VEGETATION IS RE-ESTABLISHED. ADJUSTMENTS TO THE CONTROL SYSTEM SHALL BE MADE AS REQUIRED.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE WISCONSIN DNR'S CONSERVATION PRACTICE STANDARDS. THESE STANDARDS ARE PERIODICALLY UPDATED AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND REFERENCE THE MOST RECENTLY RELEASED STANDARD.
- THIS INFORMATION IS ONLY ONE PART OF THE OVERALL EROSION CONTROL REQUIREMENTS. ADDITIONAL REQUIREMENTS MAY ALSO BE SHOWN ON THE CONTRACT DRAWINGS AND IN THE ACCOMPANYING SPECIFICATIONS.
- ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE OWNER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.
- THE AREA OF EROSION EXPOSED TO THE ELEMENTS BY GRUBBING, EXCAVATION, TRENCHING, BORROW AND FILL OPERATIONS AT ANY ONE TIME SHALL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE. FOR ANY DISTURBED AREA THAT REMAINS INACTIVE FOR GREATER THAN 7 WORKING DAYS, OR WHERE GRADING WORK EXTENDS BEYOND THE PERMANENT SEEDING DEADLINES, THE SITE MUST BE TREATED WITH TEMPORARY STABILIZATION MEASURES SUCH AS SOIL TREATMENT, TEMPORARY SEEDING AND/OR MULCHING. ALL DISTURBED AREAS SHALL BE TREATED WITH PERMANENT STABILIZATION MEASURES WITHIN 3 WORKING DAYS OF FINAL GRADING.
- ALL EROSION CONTROL MEASURES AND STRUCTURES SERVING THE SITE MUST BE INSPECTED AT LEAST WEEKLY OR WITHIN 24 HOURS OF THE TIME 0.5 INCHES OF RAIN HAS OCCURRED. ALL NECESSARY REPAIR AND MAINTENANCE WILL BE DONE AT THIS INSPECTION TIME.
- ALL EROSION CONTROL DEVICES AND/OR STRUCTURES SHALL BE PROPERLY INSTALLED PRIOR TO CLEARING AND GRUBBING OPERATIONS WITHIN THEIR RESPECTIVE DRAINAGE AREAS. THESE SHALL BE PROPERLY MAINTAINED FOR MAXIMUM EFFECTIVENESS UNTIL VEGETATION IS RE-ESTABLISHED.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY INSTALLED PRIOR TO ANY SOIL DISTURBANCE.
- ANY SLOPES STEEPER THAN 3H:1V SHALL BE STAKED WITH EROSION CONTROL FABRIC UNLESS INDICATED ON THE PLAN.
- ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS, OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED OFF-SITE BY RUNOFF OR WIND.
- WIND EROSION SHALL BE KEPT TO A MINIMUM DURING CONSTRUCTION. WATERING, MULCH, OR A TACKING AGENT MAY BE REQUIRED TO PROTECT NEARBY RESIDENCES AND WATER RESOURCES.
- CHANNELIZED RUNOFF ENTERING THE PROJECT SITE FROM ADJOINING LANDS SHALL BE DIVERTED THROUGH NATURALLY OR ARTIFICIALLY EROSION-RESISTANT CONVEYANCES. IF CHANNELIZED RUNOFF CANNOT BE DIVERTED, SITE BEST MANAGEMENT PRACTICES MUST ACCOUNT FOR THE ADDITIONAL FLOW RATES AND EROSION POTENTIAL THAT SUCH RUNOFF PRESENTS.
- THE CONTRACTOR SHALL TAKE ALL POSSIBLE PRECAUTIONS TO PREVENT SOILS FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. PAVED SURFACES ADJACENT TO CONSTRUCTION SITE VEHICLE ACCESS SHALL BE SWEEPED AND/OR SCRAPED (NOT FLUSHED) PERIODICALLY TO REMOVE SOIL, DIRT, AND/OR DUST.
- EROSION CONTROLS SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF TEMPORARY STOCKPILES. ANY SOIL STOCKPILE THAT REMAINS FOR MORE THAN 30 DAYS SHALL BE COVERED OR TREATED WITH STABILIZATION PRACTICES SUCH AS TEMPORARY OR PERMANENT SEEDING AND MULCHING. ALL STOCK PILES SHALL BE PLACED AT LEAST 75 FEET FROM STREAMS OR WETLANDS.
- ADDITIONAL EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.) SHALL INCLUDE THE FOLLOWING:
 - PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
 - BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.
 - DISCHARGE OF TRENCH WATER OR DEWATERING EFFLUENT MUST BE PROPERLY TREATED TO REMOVE SEDIMENT IN ACCORDANCE WITH THE WISCONSIN CONSERVATION PRACTICE STANDARD 1061 - DEWATERING OR A SUBSEQUENT WISCONSIN DEWATERING STANDARD PRIOR TO DISCHARGE INTO A STORM SEWER, DITCH, DRAINAGEWAY, OR WETLAND OR LAKE.
- ALL DRAINAGE CULVERTS, STORM DRAIN INLETS, MANHOLES, OR ANY OTHER EXISTING STRUCTURES THAT COULD BE DAMAGED BY SEDIMENTATION SHALL BE PROTECTED ACCORDING TO THE VARIOUS METHODS PROVIDED IN THE PRINTED CONSERVATION PRACTICE STANDARDS.
- ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR STABILIZATION MUST BE REPAIRED AND THE STABILIZATION WORK REDONE.
- DURING THE FIRST SIX WEEKS AFTER INITIAL STABILIZATION OF A DISTURBED WATERING OF ALL NEWLY SEEDED AND MULCHED AREAS SHALL BE PROVIDED WHENEVER 7 DAYS ELAPSE WITHOUT A RAIN EVENT.
- WHEN THE DISTURBED AREA HAS BEEN STABILIZED BY PERMANENT VEGETATION OR OTHER MEANS, TEMPORARY BMP'S SUCH AS SILT FENCES, STRAW BALES, AND SEDIMENT TRAPS SHALL BE REMOVED AND THESE AREAS STABILIZED.
- ALL TEMPORARY BEST MANAGEMENT PRACTICES SHALL BE MAINTAINED UNTIL THE SITE IS STABILIZED.
- ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITH SEED AND MULCH UNLESS OTHERWISE SPECIFIED. A MINIMUM OF FOUR INCHES OF TOPSOIL SHALL BE APPLIED TO ALL AREAS TO BE SEEDED OR SOODED.

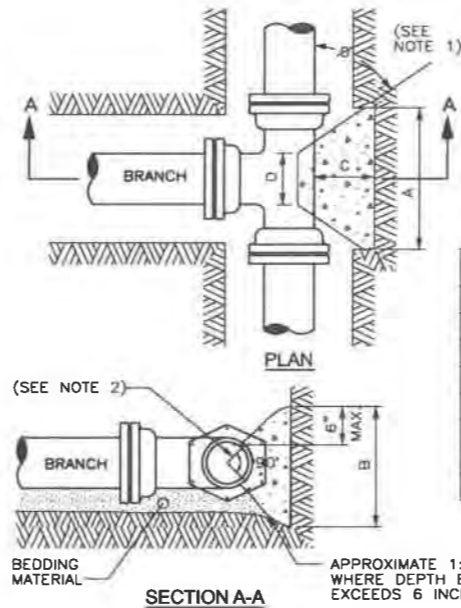


GENERAL NOTES:

- ENDS OF FENCE SHALL BE TURNED UPSLOPE 1 TO 2 FEET IN ELEVATION TO PREVENT FLANKING.
- STAPLE FABRIC WITH 1/2 INCH (MINIMUM) STAPLES TO THE UPSLOPE SIDE OF THE POSTS.
- WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.

TYPICAL SILT FENCE INSTALLATION
AT SITE PERIMETER DETAIL

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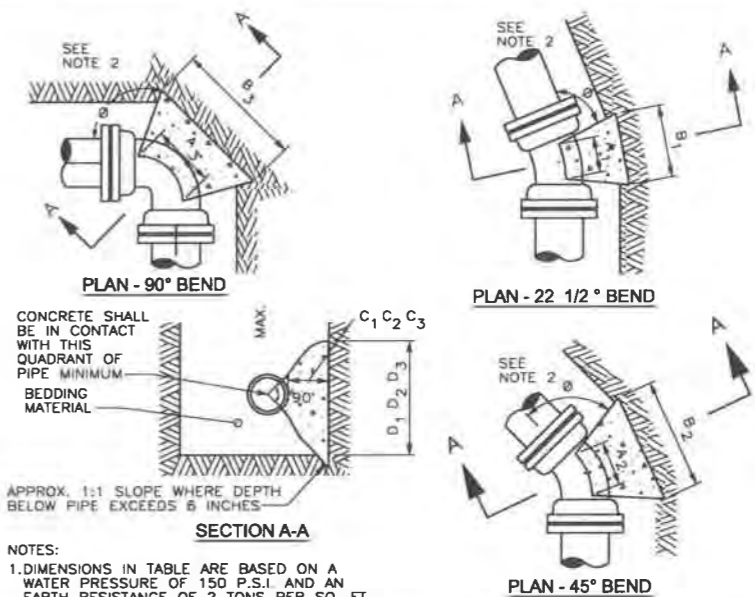


NOTES:

- DIMENSION 'C' SHOULD BE LARGE ENOUGH TO MAKE ANGLE θ GREATER THAN OR EQUAL TO 45°.
- CONCRETE SHOULD BEAR ON THIS QUADRANT OF PIPE AT A MINIMUM.
- DIMENSION 'D' SHOULD BE AS LARGE AS POSSIBLE BUT CONCRETE SHOULD NOT INTERFERE WITH MECHANICAL JOINTS.
- BUTTRESS DIMENSIONS ARE BASED ON A SOIL RESISTANCE OF TWO TONS PER SQ. FT. AND A WATER PRESSURE OF 150 PSI. INFORM THE ENGINEER IF ON-SITE SOIL DOES NOT MEET THIS CONDITION OR PRESSURES EXCEED 150 PSI.
- BUTTRESS TO BE PLACED AGAINST FIRM UNDISTURBED SOIL, OR DISTURBED SOIL COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY, ASTM D1557.
- CONCRETE SHALL HAVE A MINIMUM 7-DAY COMPRESSIVE STRENGTH OF 2000 PSI.
- ALL POURED BUTTRESSED FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.
- IN ADDITION TO BUTTRESSES, ALL JOINTS SURROUNDING TEES SHALL BE RESTRAINED WITH WEDGE ACTION RESTRAINING GLANDS.

BUTTRESS FOR TEES DETAIL

SCALE: NONE

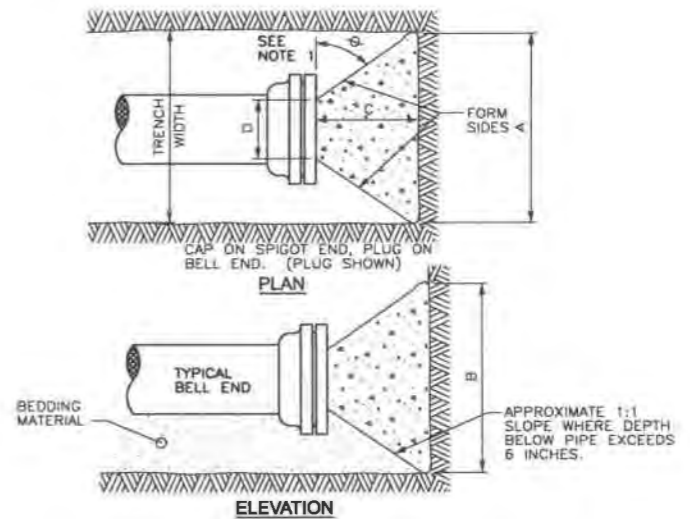


NOTES:

- DIMENSIONS IN TABLE ARE BASED ON A WATER PRESSURE OF 150 P.S.I. AND AN EARTH RESISTANCE OF 2 TONS PER SQ. FT. INFORM THE ENGINEER IF PRESSURES EXCEED 150 PSI. OR ON-SITE SOIL DOES NOT MEET THIS CONDITION.
- DIMENSION C1, C2, C3 SHOULD BE LARGE ENOUGH TO MAKE ANGLE θ EQUAL TO OR LARGER THAN 45°.
- DIMENSION A1, A2, A3 SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERING WITH THE MECHANICAL JOINT.
- BUTTRESS TO BE PLACED AGAINST FIRM UNDISTURBED SOIL, OR DISTURBED SOIL COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY, ASTM D1557.
- ALL POURED BUTTRESSED FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.
- CONCRETE SHALL HAVE A MINIMUM 7-DAY COMPRESSIVE STRENGTH OF 2000 PSI.
- IN ADDITION TO BUTTRESS, ALL JOINTS SURROUNDING BENDS SHALL BE RESTRAINED WITH WEDGE ACTION RESTRAINING GLANDS.

BUTTRESS FOR BENDS DETAIL

SCALE: NONE



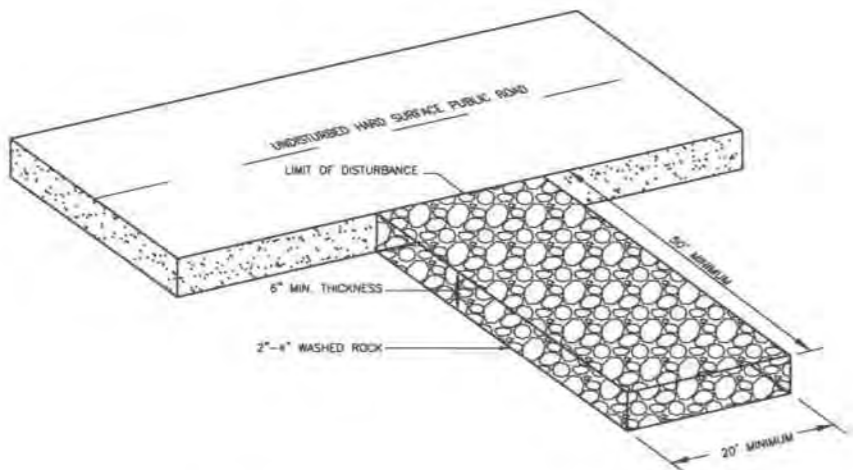
NOTES:

- DIMENSION 'C' SHOULD BE LARGE ENOUGH TO MAKE ANGLE θ GREATER THAN OR EQUAL TO 45°.
- DIMENSION 'D' EQUALS APPROX. I.D. OF PIPE LESS 2 INCHES. THE CONCRETE SHOULD NOT INTERFERE WITH THE MECHANICAL JOINTS.
- RESTRAIN ALL JOINTS WITHIN THE CALCULATED JOINT RESTRAINT LENGTH FOR DEAD ENDS.
- BUTTRESS DIMENSIONS ARE BASED ON A SOIL RESISTANCE OF TWO TONS PER SQ. FT. AND A WATER PRESSURE OF 150 PSI. INFORM THE ENGINEER IF ON-SITE SOIL DOES NOT MEET THIS CONDITION OR PRESSURES EXCEED 150 PSI.
- BUTTRESS TO BE PLACED AGAINST FIRM UNDISTURBED SOIL, OR DISTURBED SOIL COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY, ASTM D1557.
- CONCRETE SHALL HAVE A MINIMUM 7-DAY COMPRESSIVE STRENGTH OF 2000 PSI.
- ALL POURED BUTTRESSED FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.

BUTTRESS DIMENSIONS				
DIA.	A	B	C	D
6"	1'-6"	1'-2"	SEE NOTE NO. 1	SEE NOTE NO. 2
8"	2'-0"	1'-4"		
12"	2'-5"	1'-10"		
16"	3'-4"	2'-4"		
20"	4'-3"	2'-10"	SEE NOTE NO. 1	SEE NOTE NO. 2
24"	5'-2"	3'-4"		
30"	6'-9"	4'-0"		

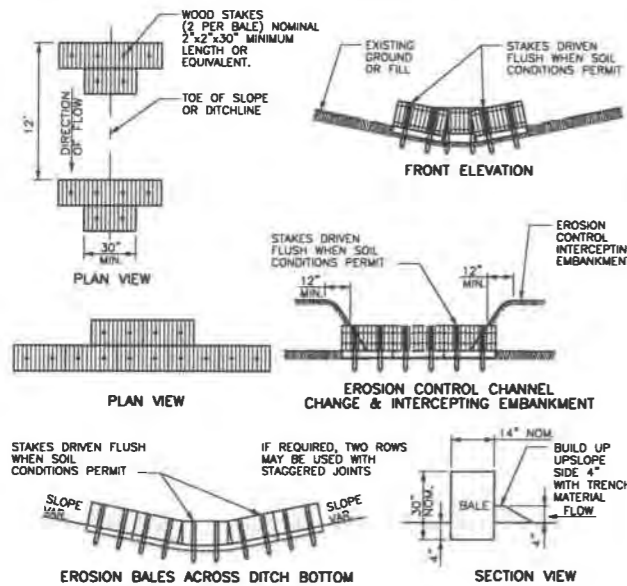
BUTTRESS FOR PLUGS DETAIL

SCALE: NONE



VEHICLE TRACKING PAD

NTS

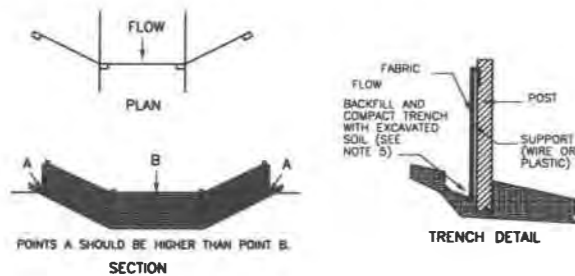


GENERAL NOTES:

1. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE SPECIFICATIONS.
2. BALES SHALL BE PLACED END TO END OR OVERLAPPING AT RIGHT ANGLES TO THE DIRECTION OF FLOW. BALES SHALL EXTEND FAR ENOUGH UP THE SLOPES TO PREVENT ERODING AROUND ENDS.
3. BALES SHALL BE PLACED WITH TWINE OR TIE WIRES PARALLEL TO THE GROUND.
4. STAKES TO BE BATTERED IN OPPOSITE DIRECTIONS.
5. BALES SHALL BE EMBEDDED 4 INCHES MINIMUM.

EROSION BALES IN DRAINAGE WAY DETAIL

NTS

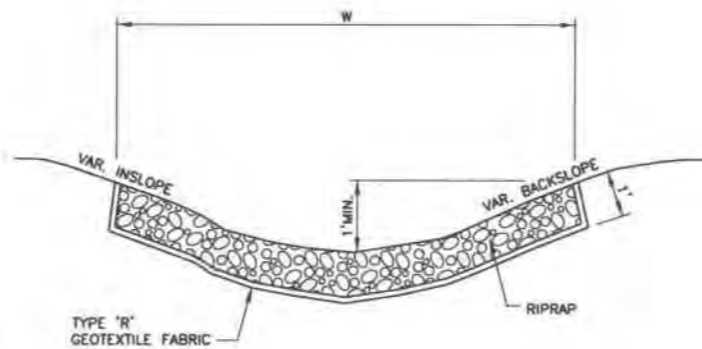


GENERAL NOTES:

1. DETAIL OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.
2. WHEN POSSIBLE THE SILT FENCE SHOULD BE CONSTRUCTED IN AN ARC OR HORSESHOE SHAPE, WITH THE ENDS POINTING UPSLOPE TO MAXIMIZE BOTH STRENGTH AND EFFECTIVENESS.
3. CROSS BRACE WITH 2 INCH BY 4 INCH WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS AS DIRECTED BY THE ENGINEER.
4. MINIMUM 14 GAGE WIRE REQUIRED, FOLD FABRIC 3 INCHES OVER THE WIRE AND STAPLE OR PLACE WIRE RINGS 12 INCHES O.C.
5. EXCAVATE A TRENCH A MINIMUM OF 4 INCHES WIDE AND 6 INCHES DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD THE MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
6. WIRE SUPPORT FENCE SHALL BE 14 GAGE MINIMUM WOVEN WIRE WITH A MAXIMUM MESH SPACING OF 6 INCHES, SECURE TOP OF GEOTEXTILE FABRIC TO TOP OF FENCE WITH STAPLES OR WIRE RINGS AT 12 INCHES O.C.
7. GEOTEXTILE FABRIC SHALL BE REINFORCED WITH AN INDUSTRIAL POLYPROPYLENE NETTING WITH A MAXIMUM MESH SPACING OF 3/4 INCH OR EQUAL. A HEAVY DUTY NYLON TOP SUPPORT CORD OR EQUIVALENT IS REQUIRED.
8. STEEL POSTS SHALL BE STUDDED "TEE" OR "U" TYPE WITH A MINIMUM WEIGHT OF 1.28 LBS./LIN. FT. (WITHOUT ANCHOR). FIN ANCHORS SUFFICIENT TO RESIST POST MOVEMENT ARE REQUIRED. WOOD POSTS SHALL BE 4 INCH IN DIAMETER OR 1-1/2 INCH BY 3-1/2 INCH EXCEPT WOOD POSTS FOR GEOTEXTILE FABRIC REINFORCED WITH NETTING SHALL BE A MINIMUM OF 1-1/8 INCH BY 1-1/8 INCH OAK OR HICKORY.

TYPICAL SILT FENCE INSTALLATION AT DRAINAGE WAYS DETAIL

NTS



TYPICAL RIPRAP INSTALLATION

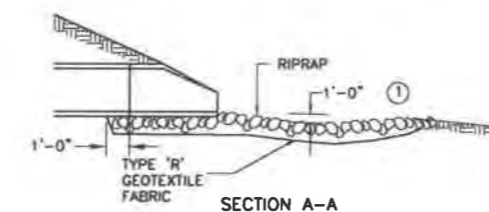
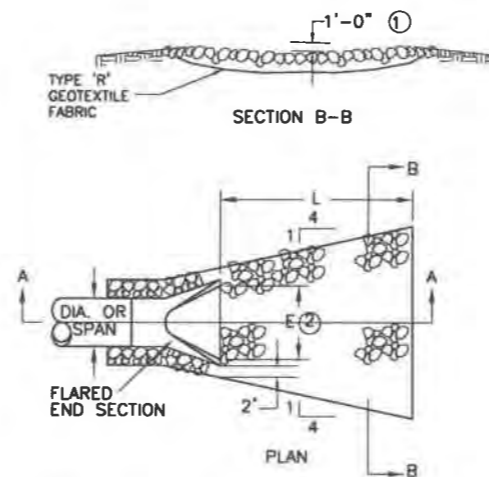
NOTE: OVERALL WIDTH (W) TO BE DETERMINED BY ENGINEER

TABLE OF QUANTITIES
RIPRAP AT RCP OUTLETS

DIA. OF ROUND PIPE (IN.)	L (FT.)	CLASS II d50=6"	CLASS III d50=9"	CLASS IV d50=12"
		12" DEPTH RIPRAP (CU.YDS.)	18" DEPTH RIPRAP (CU.YDS.)	24" DEPTH RIPRAP (CU.YDS.)
12	8	2.8	4.1	5.5
15	8	2.9	4.4	5.8
18	10	3.9	5.9	7.8
21	10	4.2	6.3	8.4
24	12	5.5	8.3	11.0
27	12	5.8	8.7	11.6
30	14	7.3	10.9	14.5
36	16	9.2	13.8	18.3
42	18	10.9	16.3	21.7
48	20	12.9	19.4	25.8

TABLE OF QUANTITIES
RIPRAP AT RCP-A OUTLETS
OR BOXES OF EQUIVALENT SPAN WIDTH

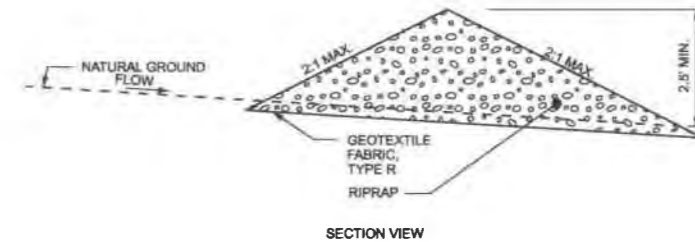
SPAN OF PIPE ARCH (IN.)	L (FT.)	CLASS II d50=6"	CLASS III d50=9"	CLASS IV d50=12"
		12" DEPTH RIPRAP (CU.YDS.)	18" DEPTH RIPRAP (CU.YDS.)	24" DEPTH RIPRAP (CU.YDS.)
22	10	3.9	5.9	7.8
28	12	5.5	8.2	10.9
36	14	7.2	10.8	14.3
43	16	9.2	13.7	18.3
51	18	10.9	16.3	21.7
58	20	12.7	19.0	25.4



NOTES:

- PIPE SIZES LARGER THAN THOSE SHOWN REQUIRE A SPECIAL DESIGN.
REQUIREMENTS FOR RIPRAP SIZE AND THICKNESS AND FILTER BLANKET WILL BE DESIGNATED IN THE PLANS.

- ① FOR PIPES GREATER THAN OR EQUAL TO 30" USE 1.5'.
② DIMENSION E IS GIVEN ON STANDARD PLATES 3100 AND 3110.

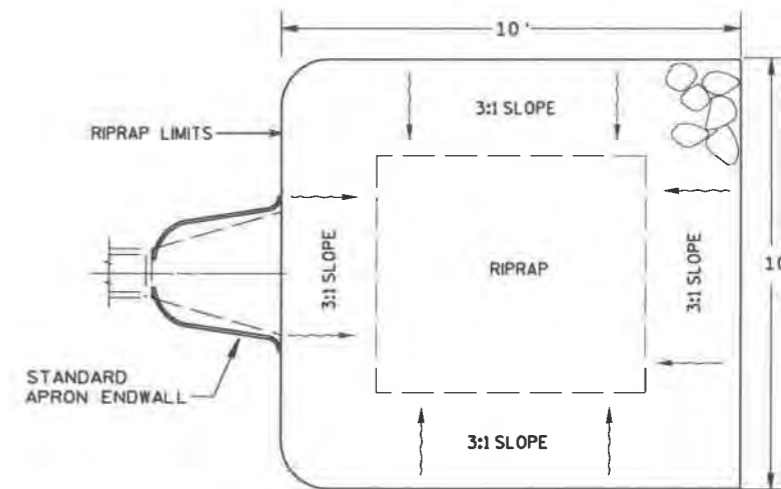


GENERAL NOTES:

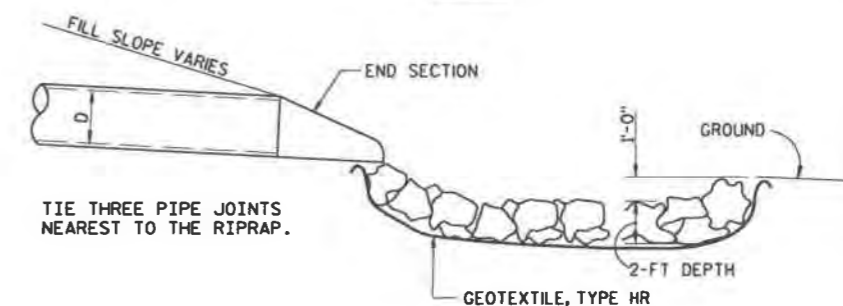
1. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE SPECIFICATIONS AND THE "WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK".
2. THE STONE CHECK DAM SHALL BE CONSTRUCTED IN A SEMI-CIRCLE AROUND THE RIPRAP APRON AT THE END OF THE CULVERTS.
3. RIPRAP SHALL BE D50 = 12" FOR THE STONE OUTFALL CHECK

STONE OUTFALL CHECK

NTS

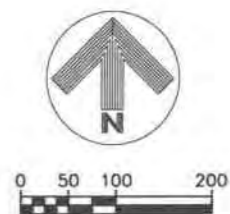
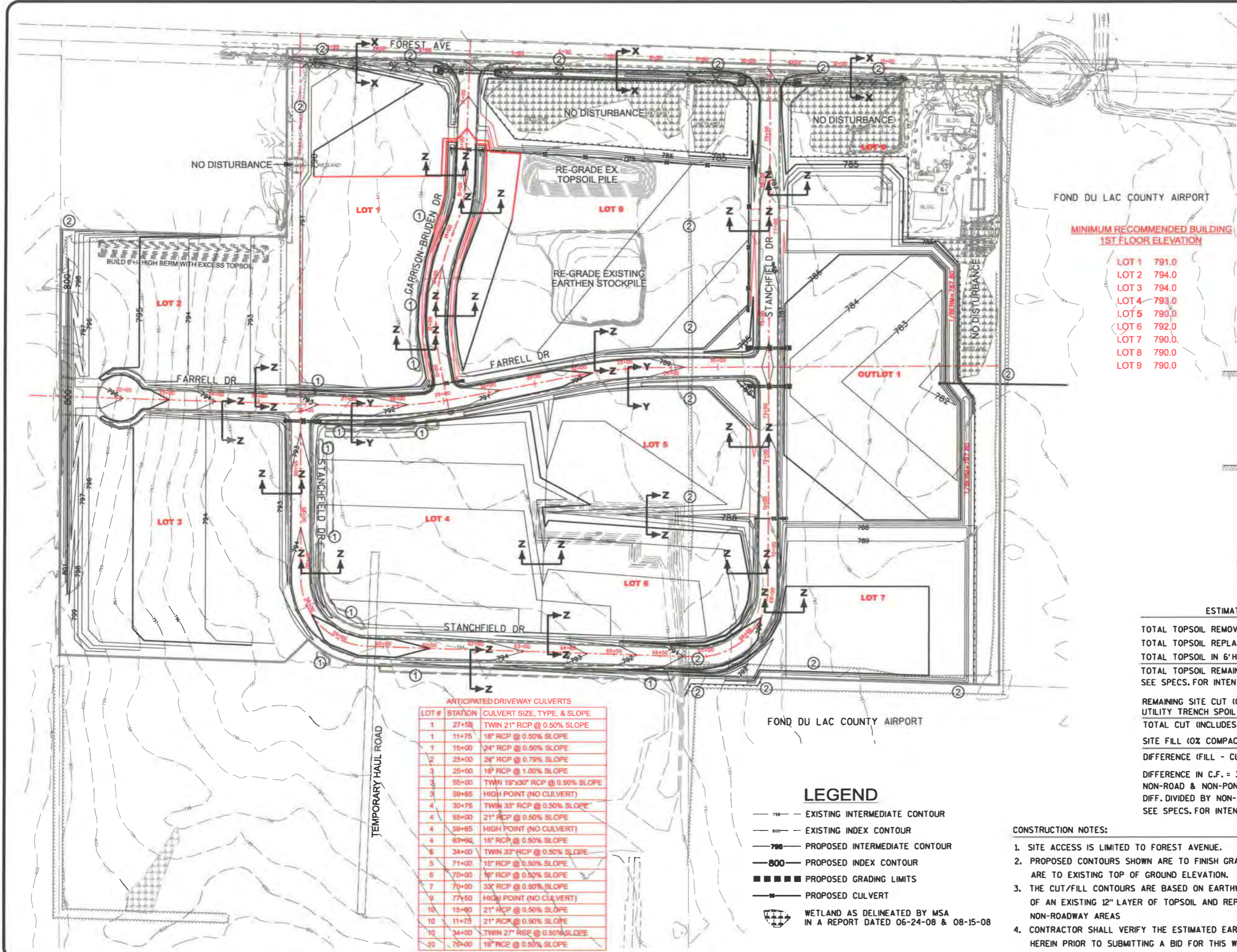


PLAN



CL PROFILE

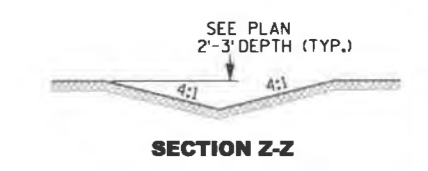
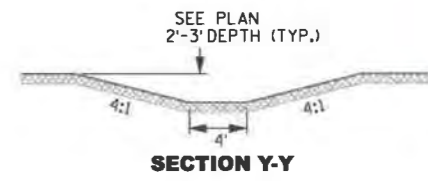
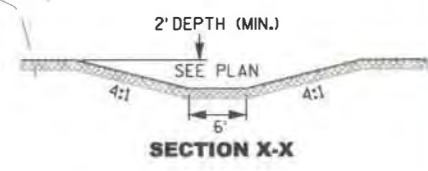
POND OUTFALL (AIRPORT PROPERTY)



- KEY NOTES
- ① RE-GRADE EXISTING UTILITY TRENCH STOCKPILE
 - ② CLEAR & GRUB EX. TREES AS REQUIRED

MINIMUM RECOMMENDED BUILDING 1ST FLOOR ELEVATION

LOT 1	791.0
LOT 2	794.0
LOT 3	794.0
LOT 4	793.0
LOT 5	790.0
LOT 6	792.0
LOT 7	790.0
LOT 8	790.0
LOT 9	790.0



ESTIMATED EARTHWORK QUANTITIES

TOTAL TOPSOIL REMOVED (ASSUME 12" THICK) = 83,200 C.Y.
TOTAL TOPSOIL REPLACED (ASSUME 12" THICK) = 75,100 C.Y.
TOTAL TOPSOIL IN 6" HIGH BERM = 1,450 C.Y.
TOTAL TOPSOIL REMAINING = 6,650 C.Y.
SEE SPECS. FOR INTENT ON HANDLING EXTRA TOPSOIL

REMAINING SITE CUT (0% COMPACTION/EXPANSION) = 68,100 C.Y.
UTILITY TRENCH SPOIL IN ROADWAY = 2,500 C.Y.
TOTAL CUT (INCLUDES EX. SPOIL PILES) = 70,600 C.Y.
SITE FILL (0% COMPACTION/EXPANSION) = 82,900 C.Y.
DIFFERENCE (FILL - CUT) = 12,300 C.Y. FILL

DIFFERENCE IN C.F. = 332,100 C.F.
NON-ROAD & NON-POND AREAS OF SITE = 1,813,600 S.F.
DIFF. DIVIDED BY NON-AREAS = 0.18 FEET OR APPROX. 2 INCHES
SEE SPECS. FOR INTENT ON BALANCING EARTHWORK

ANTICIPATED DRIVEWAY CULVERTS

LOT #	STATION	CULVERT SIZE, TYPE, & SLOPE
1	27+50	TWIN 21" RCP @ 0.50% SLOPE
1	11+75	18" RCP @ 0.50% SLOPE
1	15+00	24" RCP @ 0.50% SLOPE
2	25+00	24" RCP @ 0.79% SLOPE
3	25+00	18" RCP @ 1.00% SLOPE
3	55+00	TWIN 15"x30" RCP @ 0.50% SLOPE
3	59+65	HIGH POINT (NO CULVERT)
4	30+75	TWIN 33" RCP @ 0.50% SLOPE
4	55+00	21" RCP @ 0.50% SLOPE
4	59+65	HIGH POINT (NO CULVERT)
4	63+60	18" RCP @ 0.50% SLOPE
5	34+00	TWIN 33" RCP @ 0.50% SLOPE
5	71+00	18" RCP @ 0.50% SLOPE
5	70+00	18" RCP @ 0.50% SLOPE
7	70+00	33" RCP @ 0.50% SLOPE
9	77+50	HIGH POINT (NO CULVERT)
10	15+00	21" RCP @ 0.50% SLOPE
10	11+75	21" RCP @ 0.50% SLOPE
10	34+00	TWIN 27" RCP @ 0.50% SLOPE
10	70+00	18" RCP @ 0.50% SLOPE

LEGEND

- 795 — EXISTING INTERMEDIATE CONTOUR
- 800 — EXISTING INDEX CONTOUR
- 798 — PROPOSED INTERMEDIATE CONTOUR
- 800 — PROPOSED INDEX CONTOUR
- PROPOSED GRADING LIMITS
- +— PROPOSED CULVERT
- WETLAND AS DELINEATED BY MSA IN A REPORT DATED 06-24-08 & 08-15-08

CONSTRUCTION NOTES:

- SITE ACCESS IS LIMITED TO FOREST AVENUE.
- PROPOSED CONTOURS SHOWN ARE TO FINISH GRADE. EXISTING CONTOURS SHOWN ARE TO EXISTING TOP OF GROUND ELEVATION.
- THE CUT/FILL CONTOURS ARE BASED ON EARTHWORK CALCULATIONS THAT ASSUME REMOVAL OF AN EXISTING 12" LAYER OF TOPSOIL AND REPLACEMENT OF A 12" LAYER OF TOPSOIL ON NON-ROADWAY AREAS
- CONTRACTOR SHALL VERIFY THE ESTIMATED EARTHWORK AND TOPSOIL QUANTITIES SHOWN HEREIN PRIOR TO SUBMITTING A BID FOR THIS WORK.

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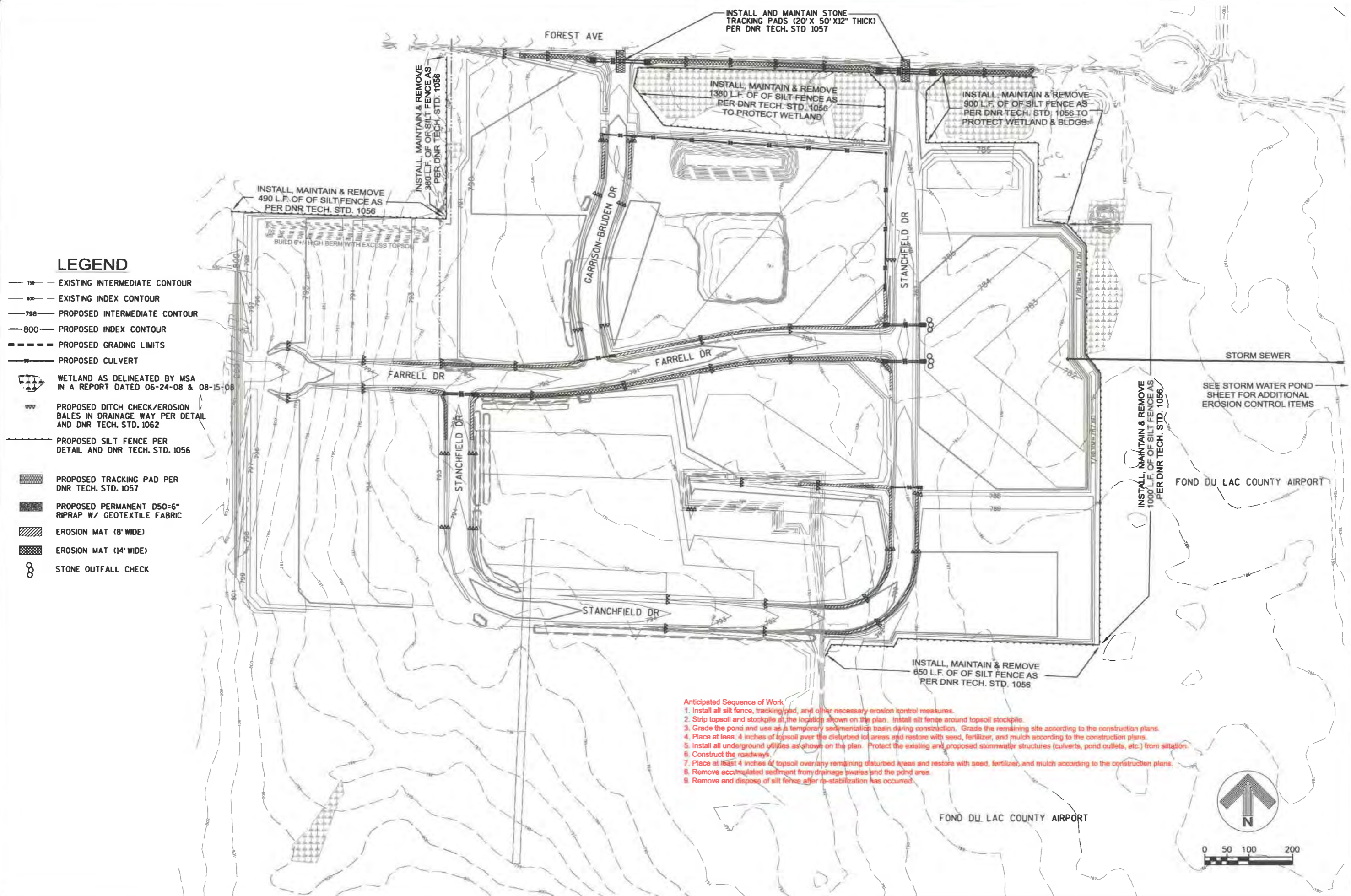
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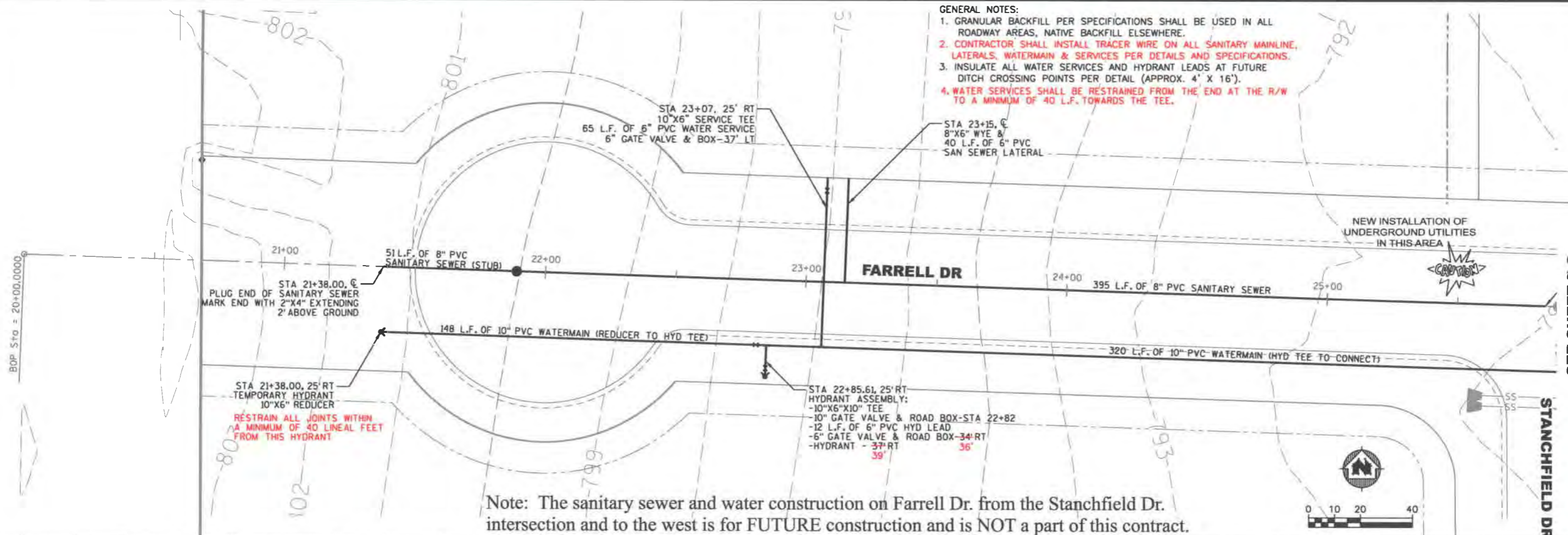
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REVISION	
DATE	09-03-08
NO	
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PLAT DATE	09/17/2009
SCALE	AS SHOWN
Overall Grading Plan	
Aeronautical Industrial Park	
Town of Fond du Lac	
Fond du Lac County, Wisconsin	
FILE NO.	193861.0
SHEET	ST 1



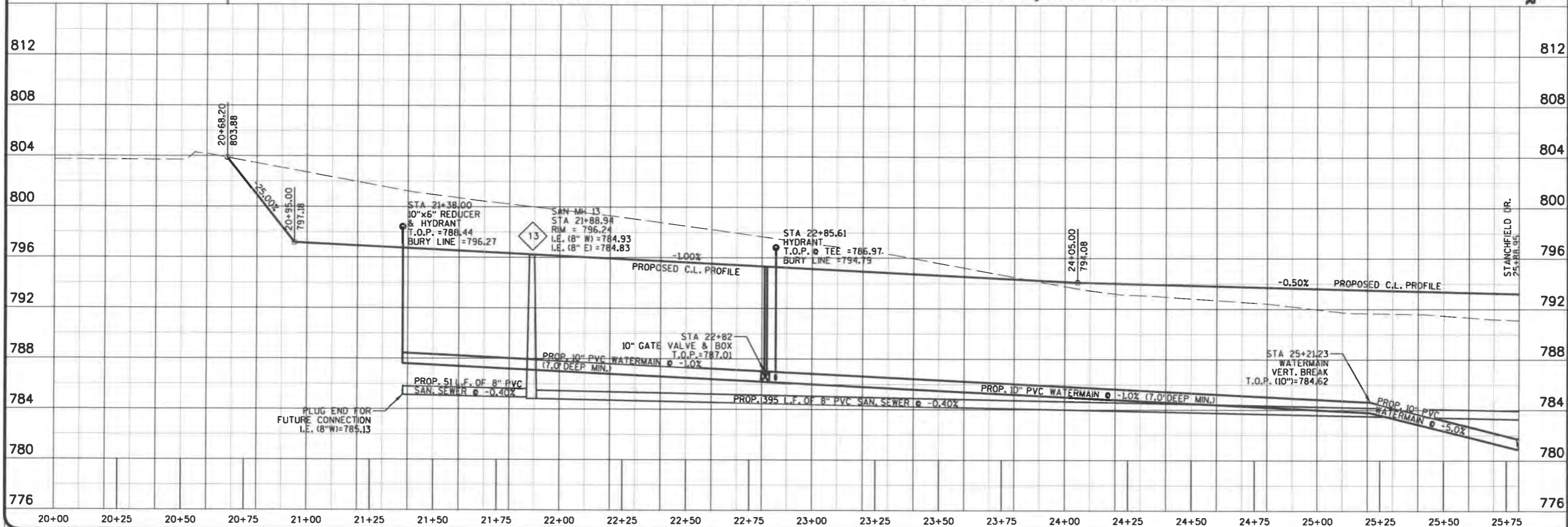
- Anticipated Sequence of Work
1. Install all silt fence, tracking pad, and other necessary erosion control measures.
 2. Strip topsoil and stockpile at the location shown on the plan. Install silt fence around topsoil stockpile.
 3. Grade the pond and use as a temporary sedimentation basin during construction. Grade the remaining site according to the construction plans.
 4. Place at least 4 inches of topsoil over the disturbed lot areas and restore with seed, fertilizer, and mulch according to the construction plans.
 5. Install all underground utilities as shown on the plan. Protect the existing and proposed stormwater structures (culverts, pond outlets, etc.) from siltation.
 6. Construct the roadways.
 7. Place at least 4 inches of topsoil over any remaining disturbed areas and restore with seed, fertilizer, and mulch according to the construction plans.
 8. Remove accumulated sediment from drainage swales and the pond area.
 9. Remove and dispose of silt fence after re-stabilization has occurred.

GENERAL NOTES:

1. GRANULAR BACKFILL PER SPECIFICATIONS SHALL BE USED IN ALL ROADWAY AREAS, NATIVE BACKFILL ELSEWHERE.
2. CONTRACTOR SHALL INSTALL TRACER WIRE ON ALL SANITARY MAINLINE, LATERALS, WATERMAIN & SERVICES PER DETAILS AND SPECIFICATIONS.
3. INSULATE ALL WATER SERVICES AND HYDRANT LEADS AT FUTURE DITCH CROSSING POINTS PER DETAIL (APPROX. 4' X 16').
4. WATER SERVICES SHALL BE RESTRAINED FROM THE END AT THE R/W TO A MINIMUM OF 40 L.F. TOWARDS THE TEE.



Note: The sanitary sewer and water construction on Farrell Dr. from the Stanchfield Dr. intersection and to the west is for FUTURE construction and is NOT a part of this contract.



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SEE SHEET P 2

STANCHFIELD DR.

Farrell Dr. - Sanitary & Water - Plan & Profile

Aeronautical Industrial Park
Town of Fond du Lac
Fond du Lac County, Wisconsin

FILE NO: 193861.0

SHEET: P 1

DATE: 09-03-08

NO: 1

REVISION: REVISED PER OWNER REVIEW COMMENTS

DESIGNED BY: CTG & MLL

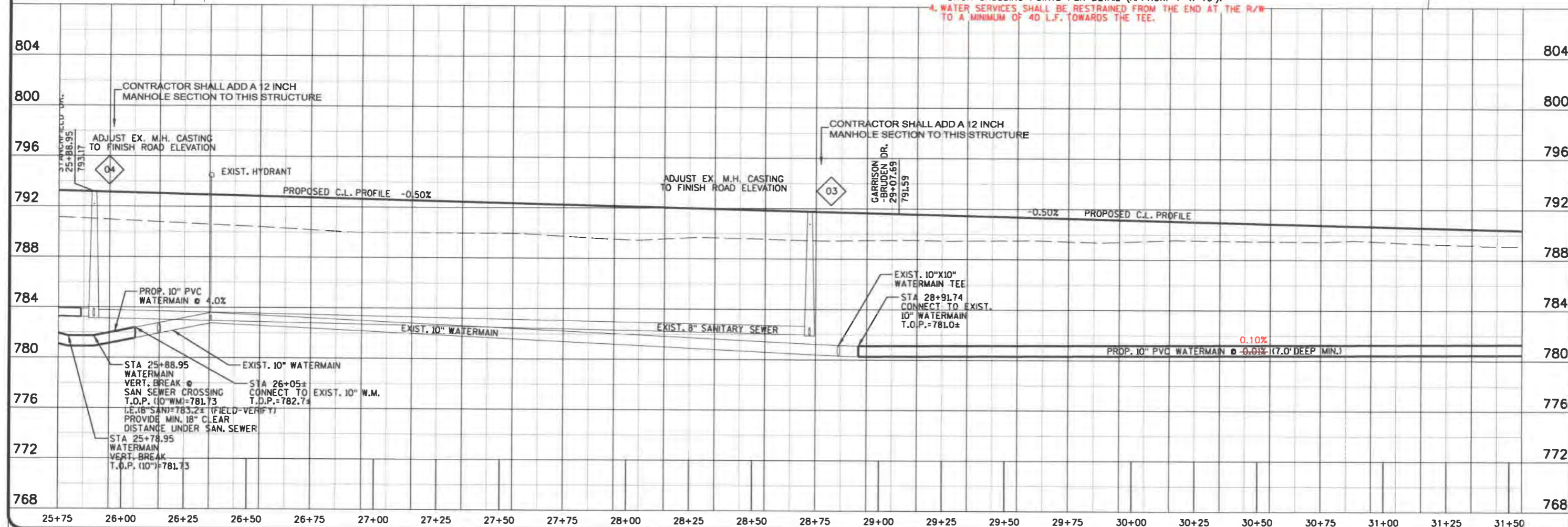
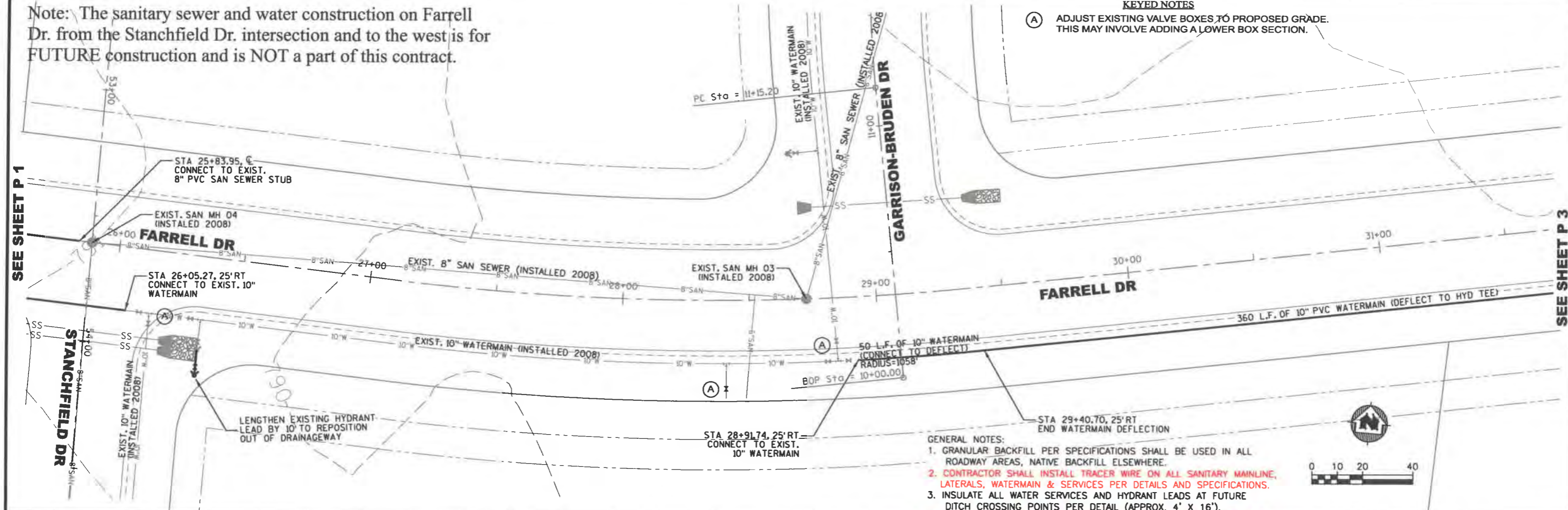
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PLOT DATE: 09/21/2009

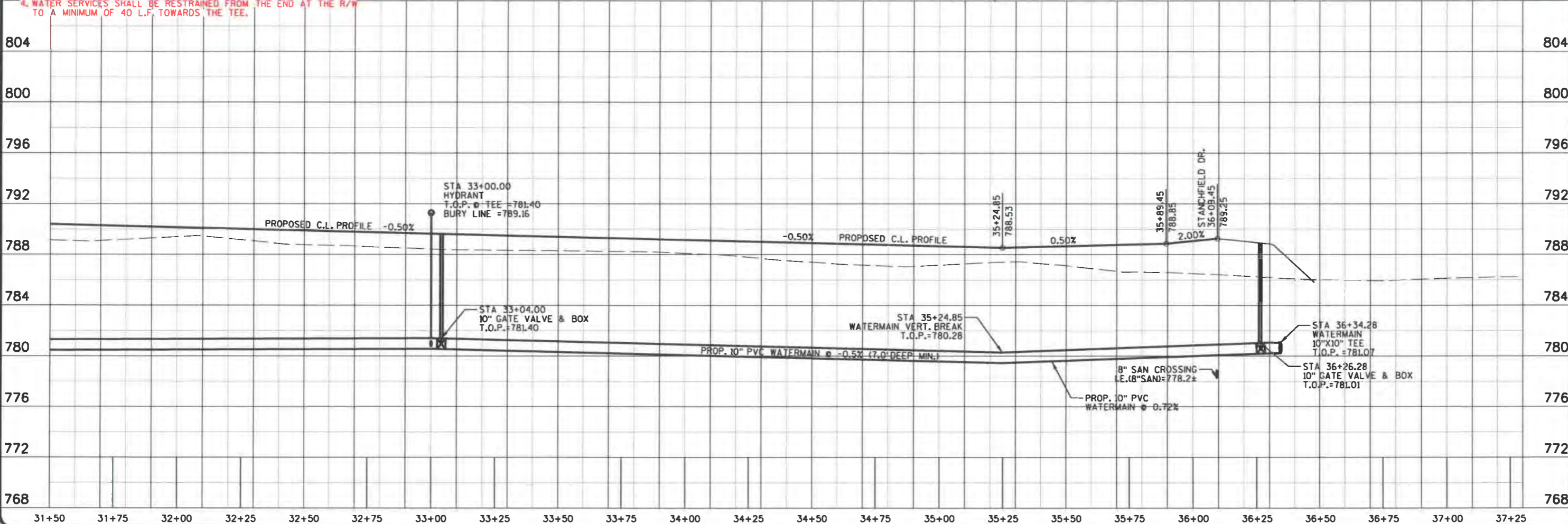
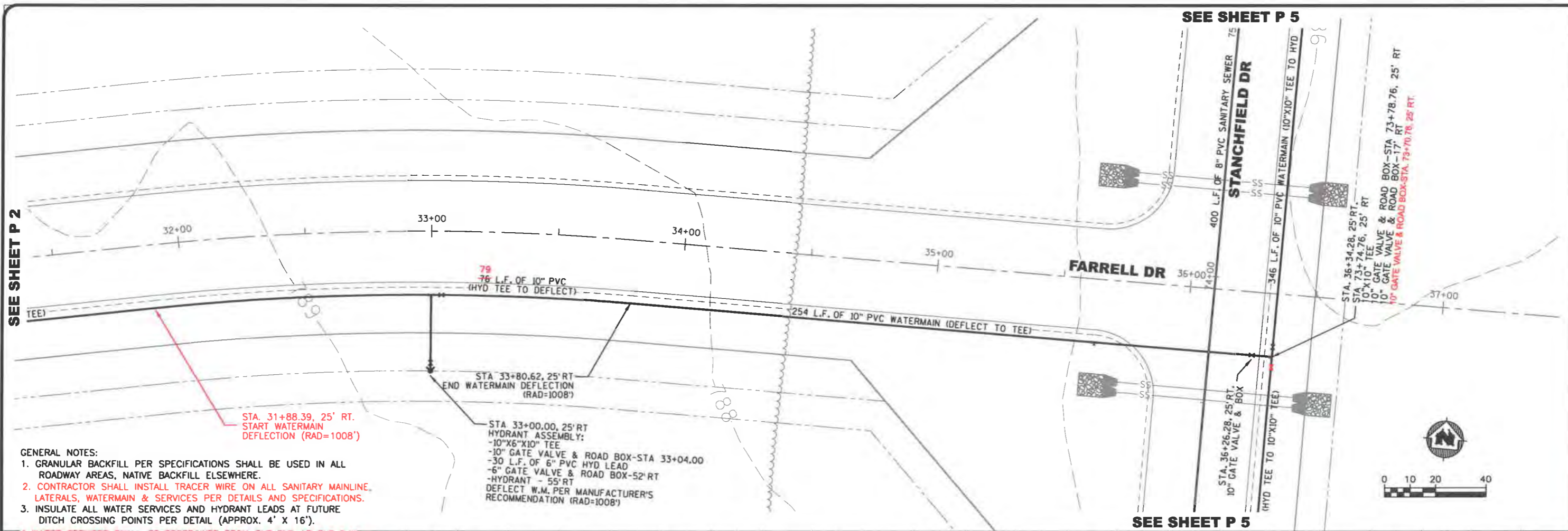
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Note: The sanitary sewer and water construction on Farrell Dr. from the Stanchfield Dr. intersection and to the west is for FUTURE construction and is NOT a part of this contract.



SEE SHEET P 2

SEE SHEET P 5



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NO.	DATE	REVISION
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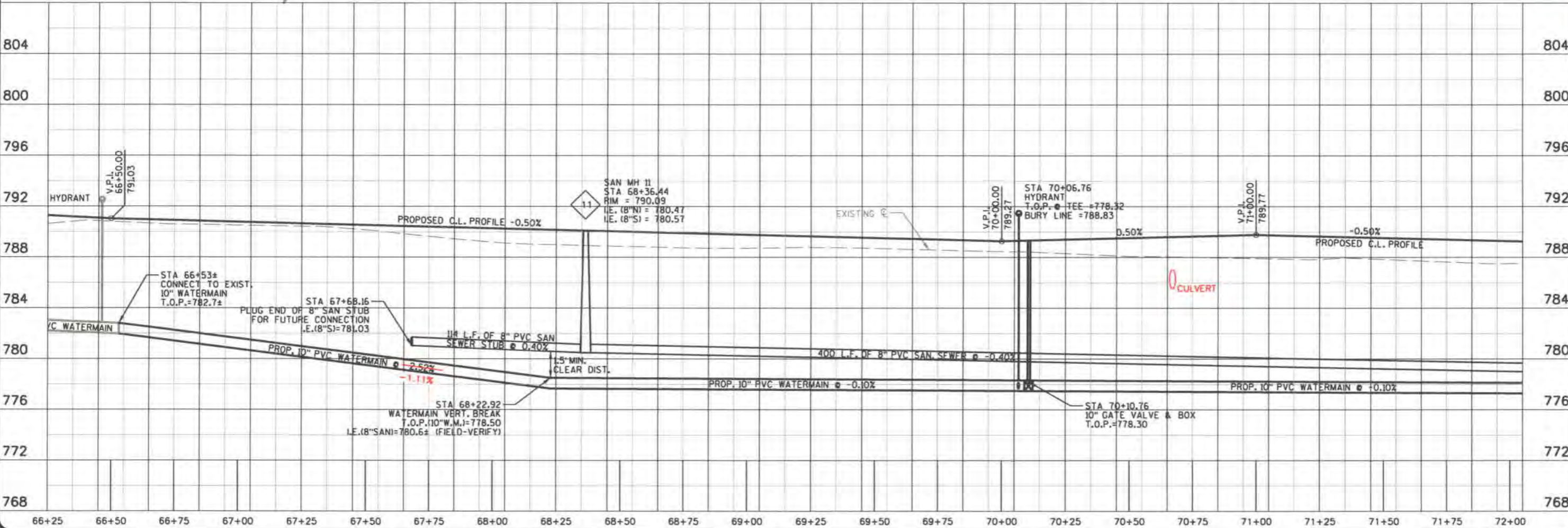
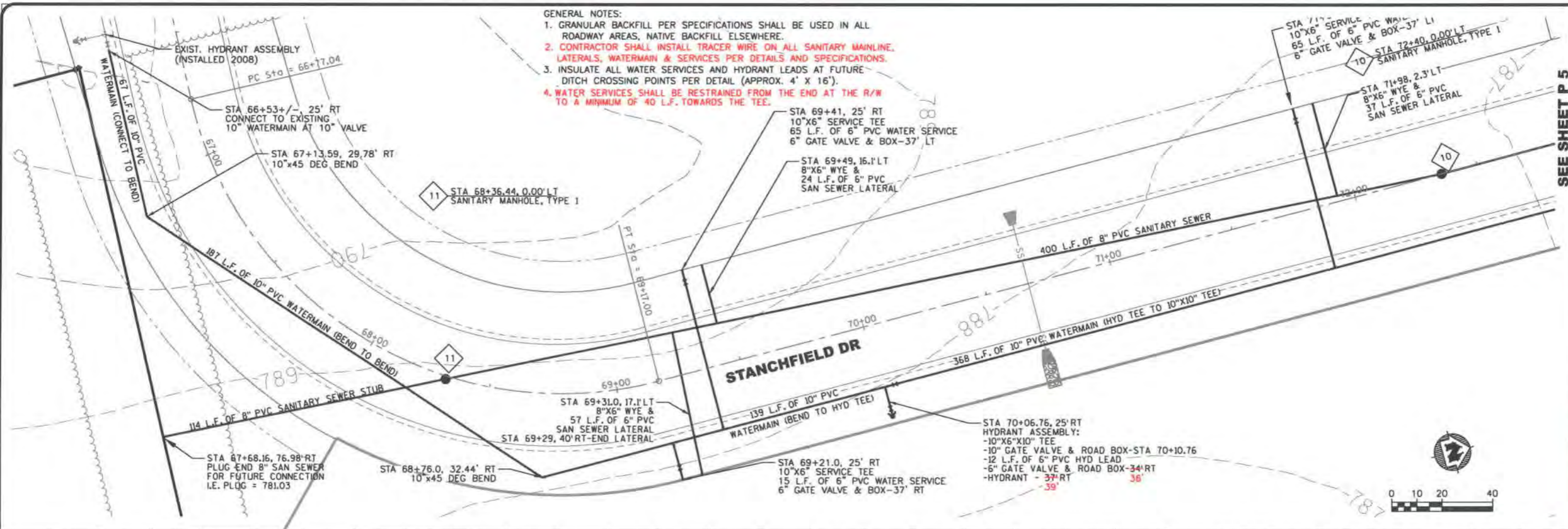
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Farrell Dr. - Sanitary & Water - Plan & Profile

Aeronautical Industrial Park
Town of Fond du Lac
Fond du Lac County, Wisconsin

FILE NO
193861.0

SHEET
P-3



GENERAL NOTES:

1. GRANULAR BACKFILL PER SPECIFICATIONS SHALL BE USED IN ALL ROADWAY AREAS, NATIVE BACKFILL ELSEWHERE.
2. CONTRACTOR SHALL INSTALL TRACER WIRE ON ALL SANITARY MAINLINE, LATERALS, WATERMAIN & SERVICES PER DETAILS AND SPECIFICATIONS.
3. INSULATE ALL WATER SERVICES AND HYDRANT LEADS AT FUTURE DITCH CROSSING POINTS PER DETAIL (APPROX. 4' X 16').
4. WATER SERVICES SHALL BE RESTRAINED FROM THE END AT THE R/W TO A MINIMUM OF 40 L.F. TOWARDS THE TEE.

SEE SHEET P 6

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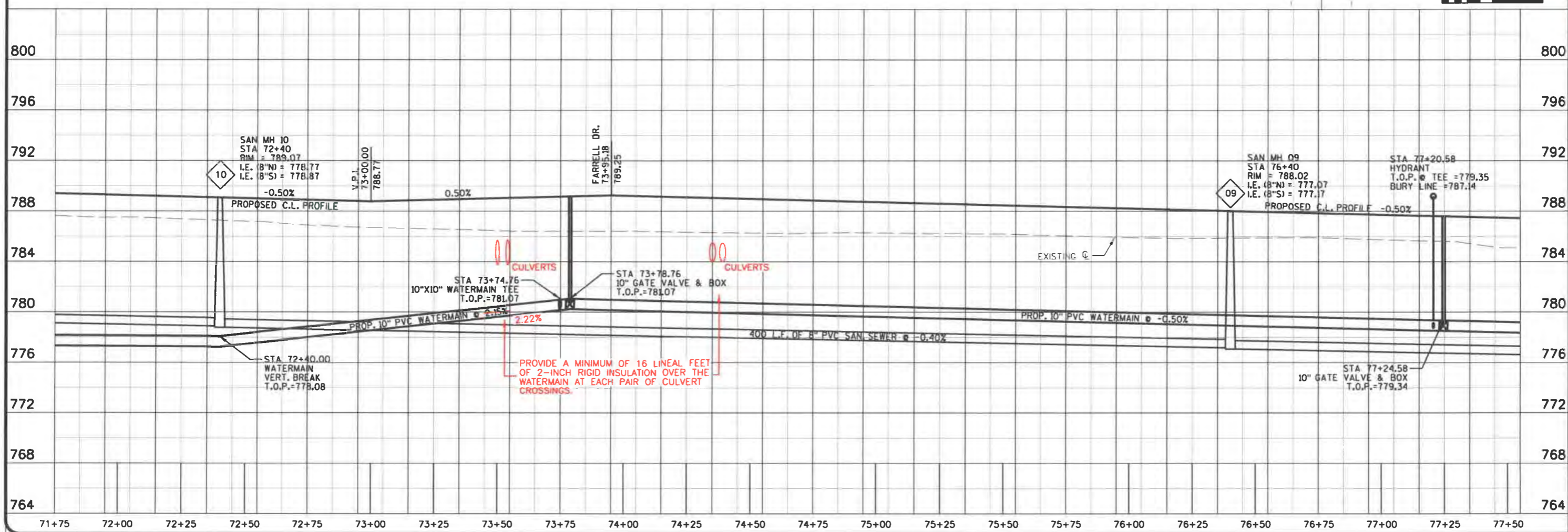
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CHECKED BY:			

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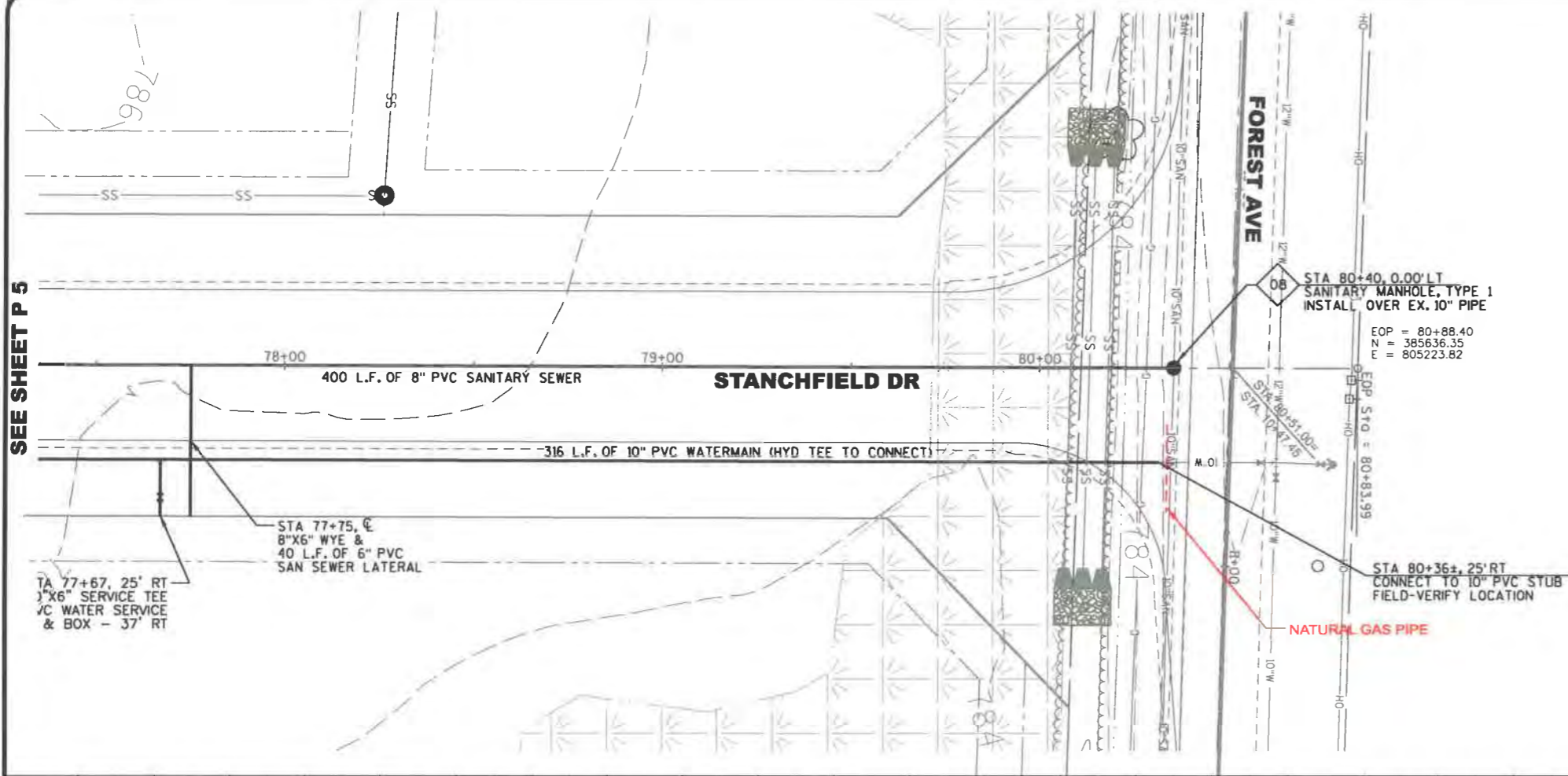
Field Dr. - Sanitary & Water - Plaster
Aeronautical Industrial Park
Town of Fond du Lac
Fond du Lac County, Wisconsin

FILE NO
193861.0

SHEET
P.5

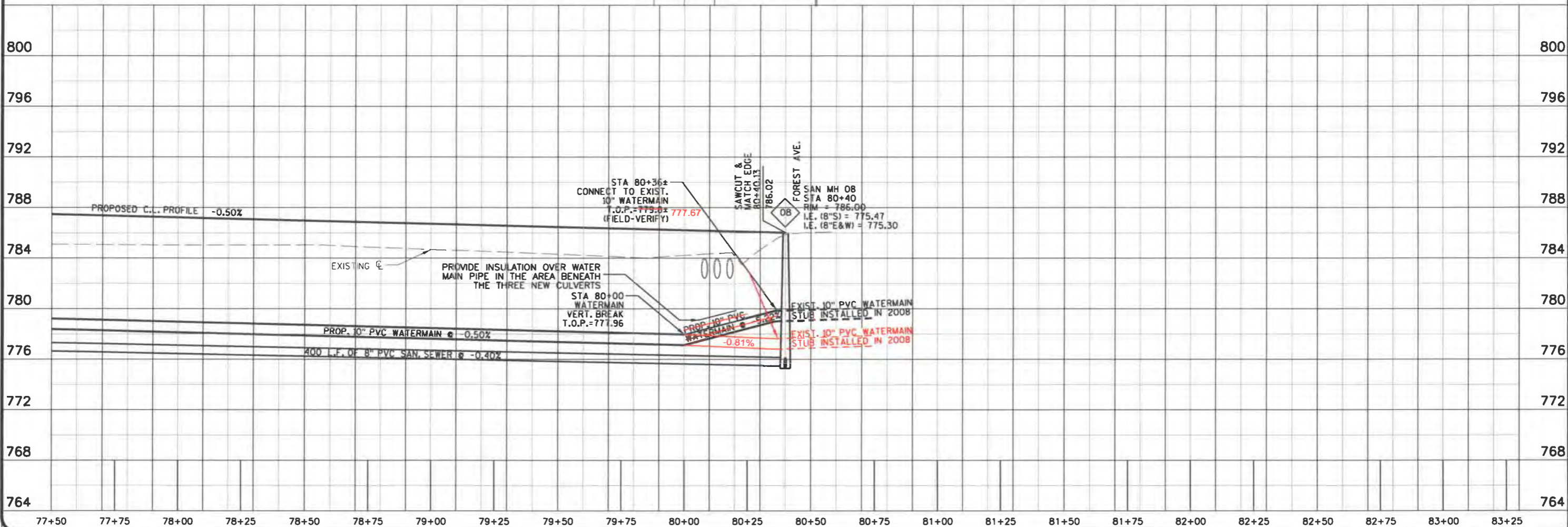


SEE SHEET P 5

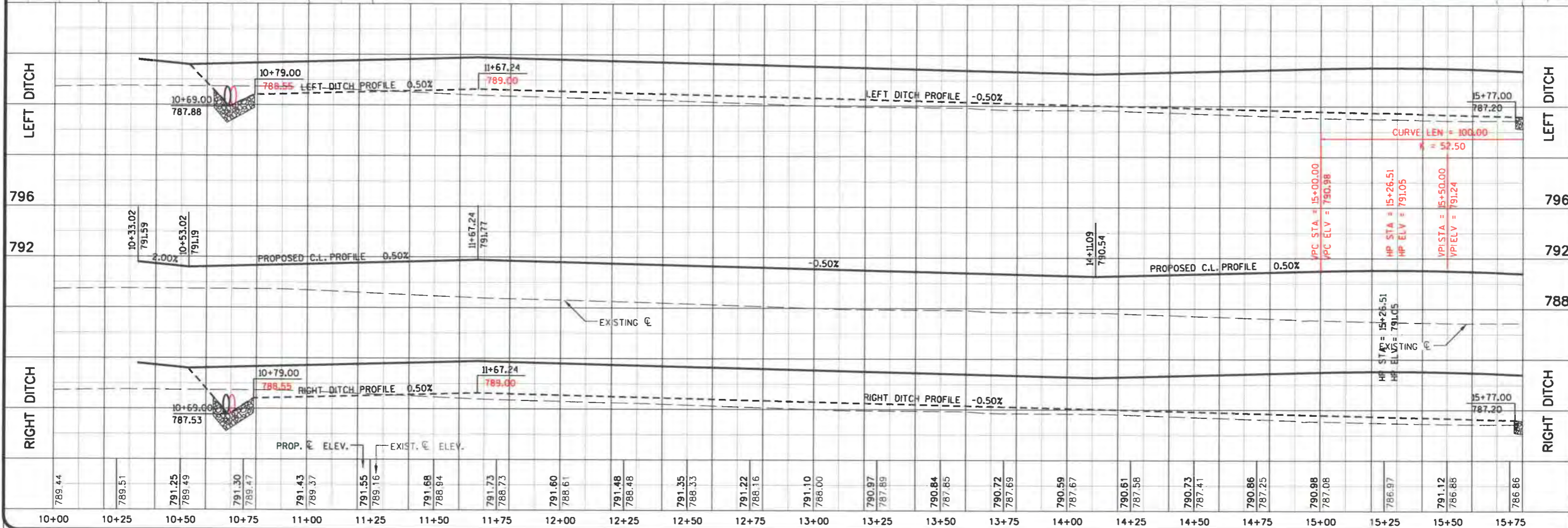
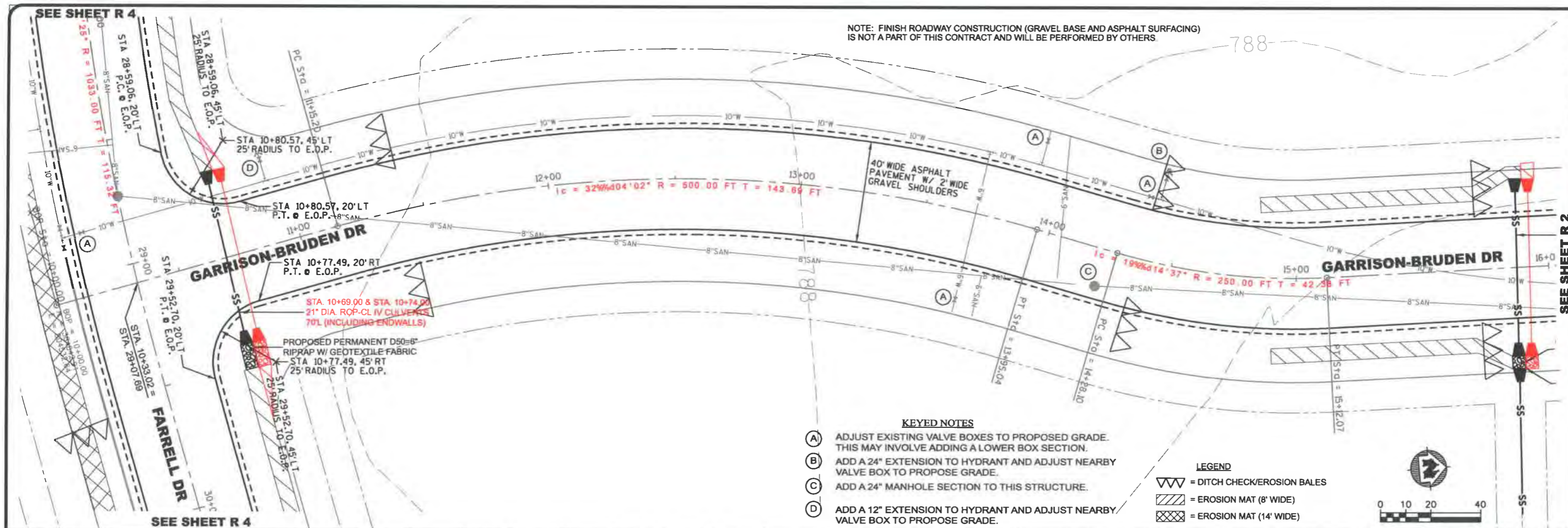


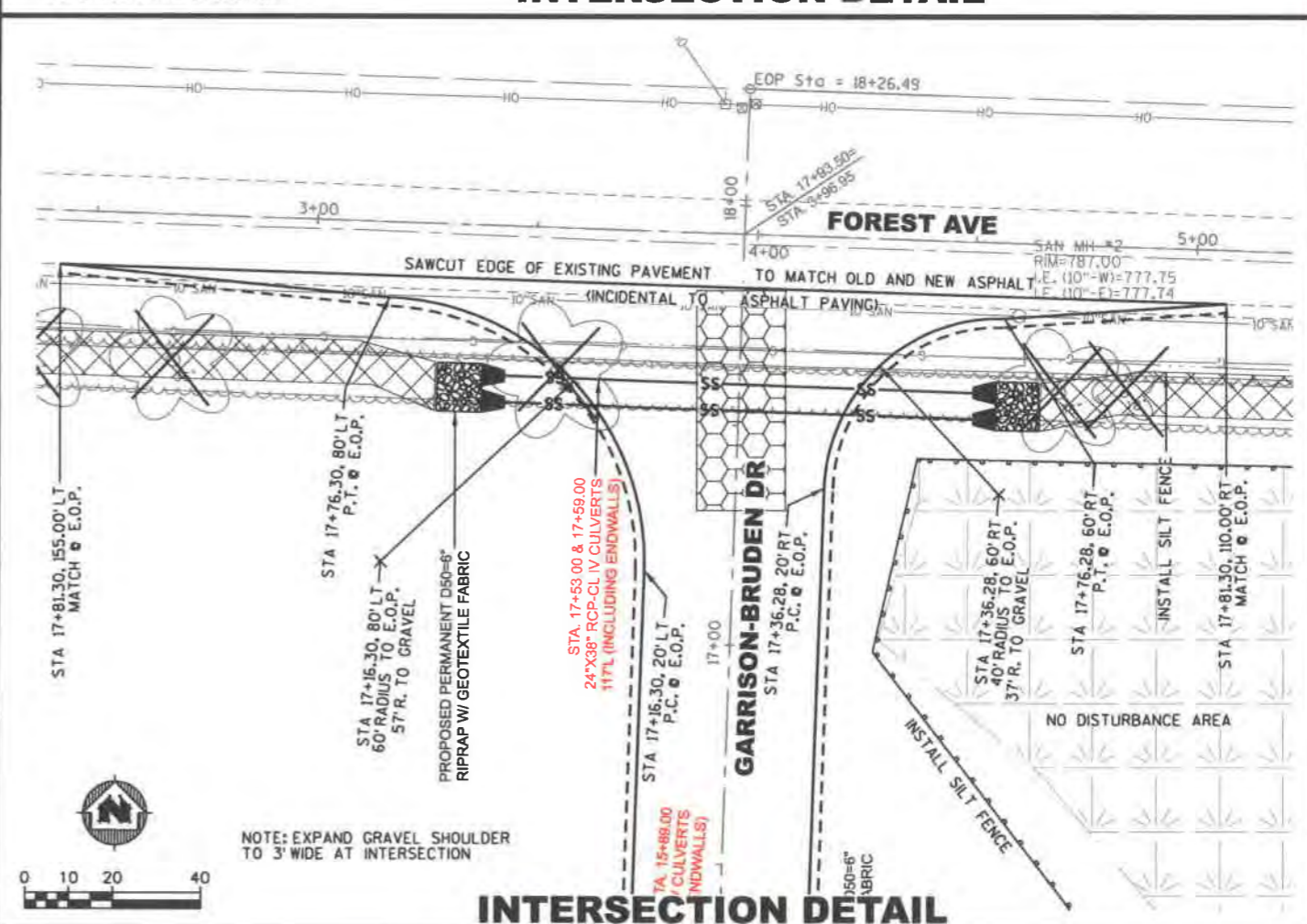
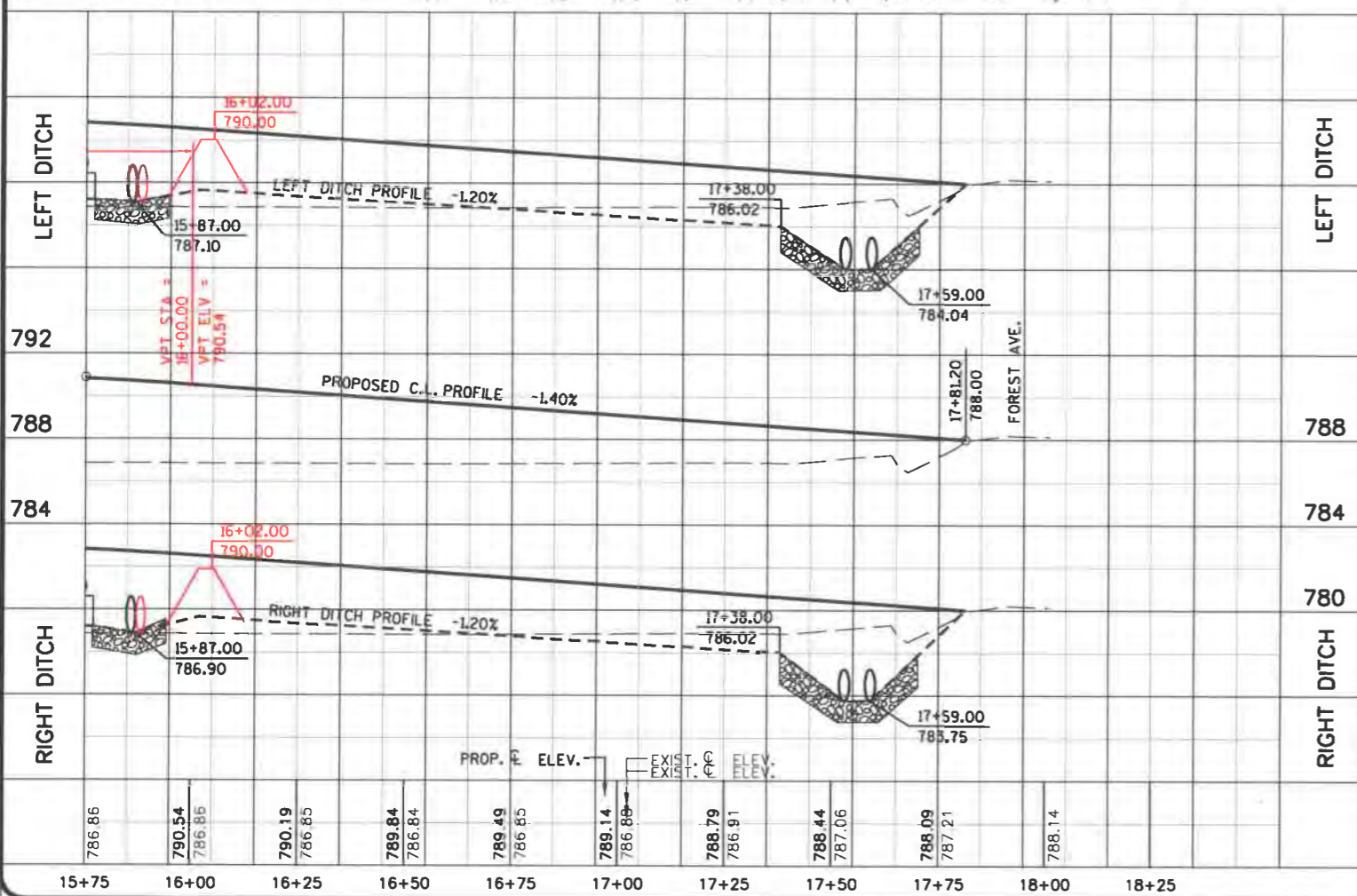
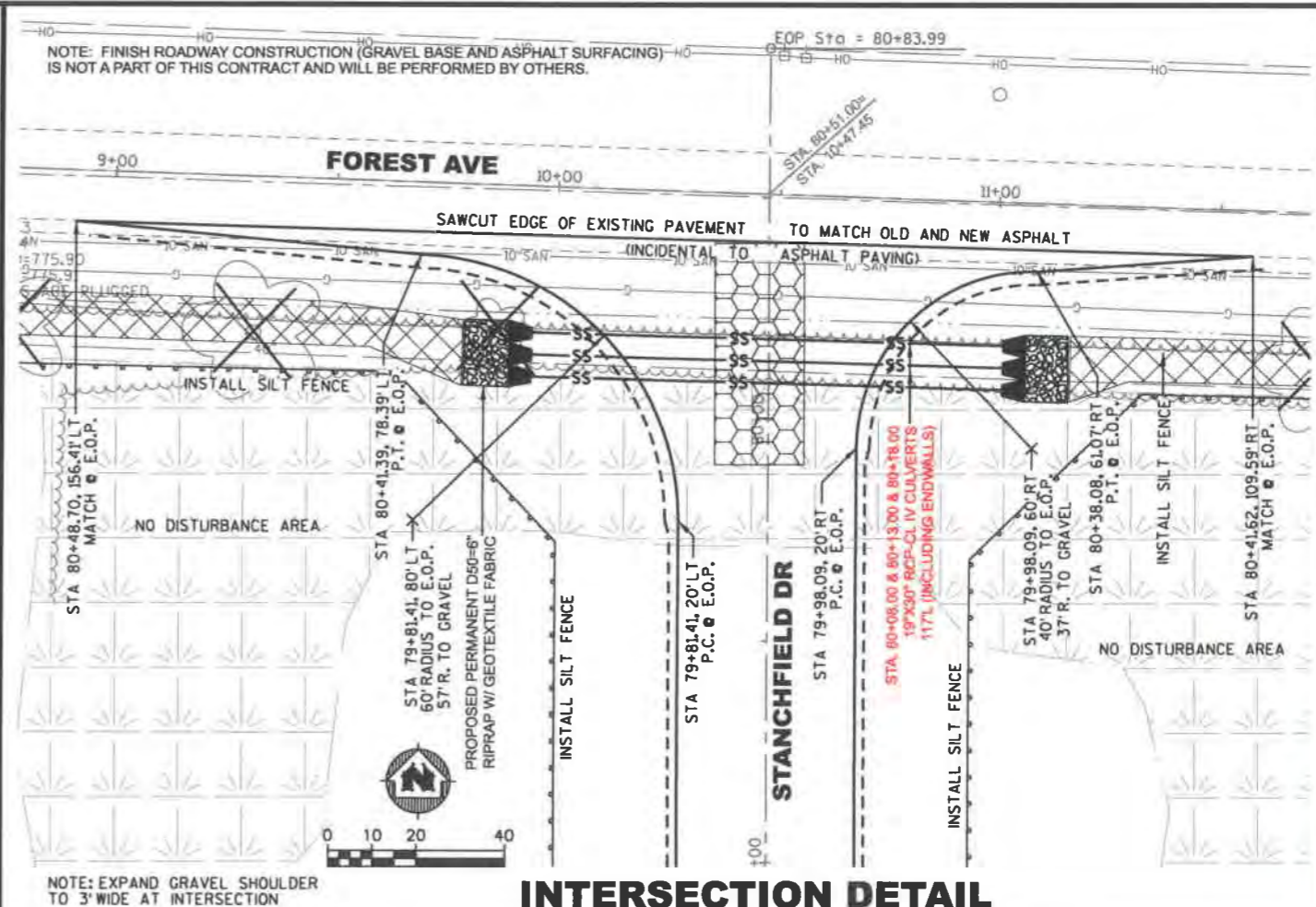
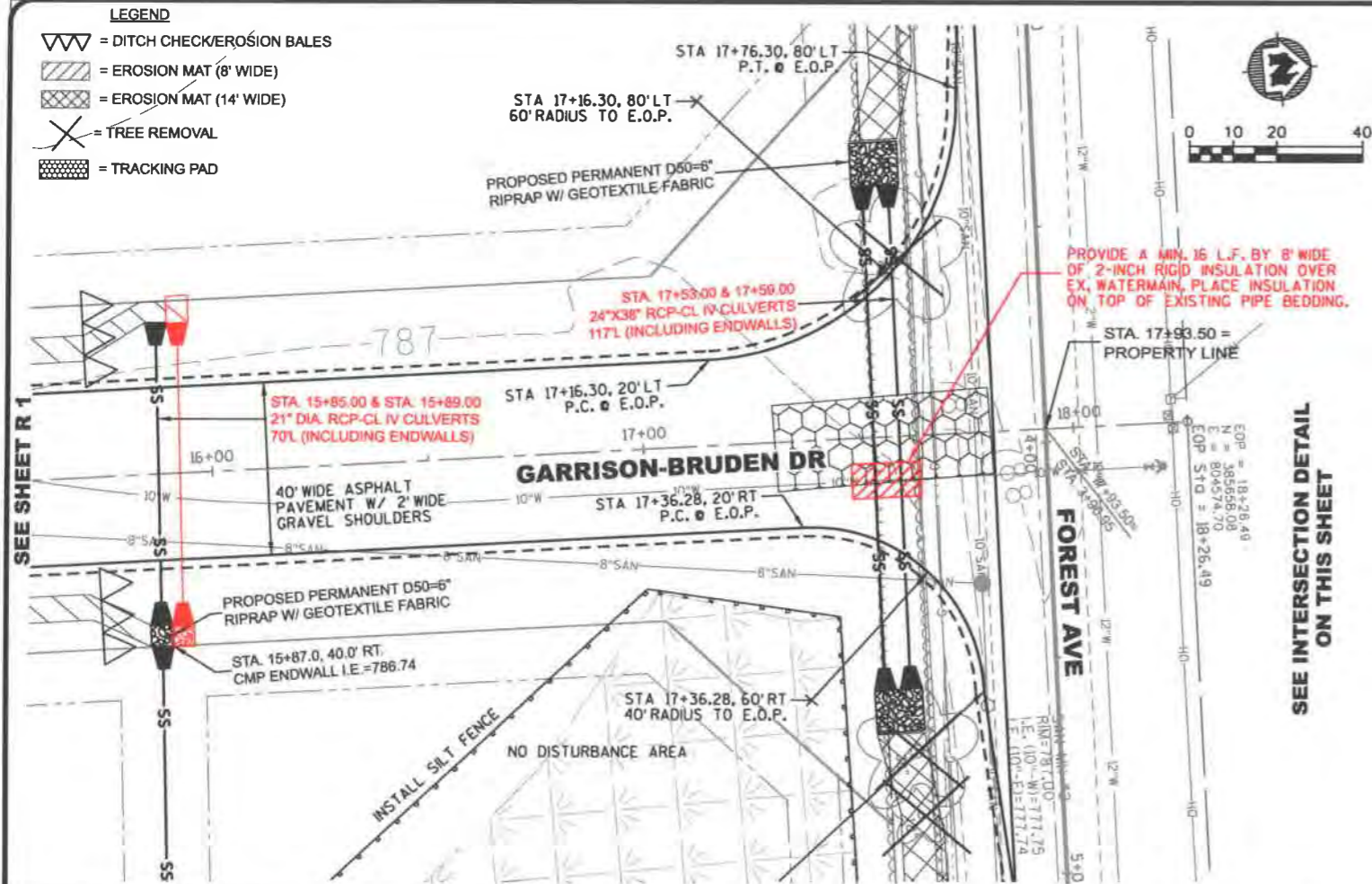
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3. INSULATE ALL WATER SERVICES AND HYDRANT LEADS AT FUTURE DITCH CROSSING POINTS PER DETAIL (APPROX. 4' X 16').
4. WATER SERVICES SHALL BE RESTRAINED FROM THE END AT THE R/W TO A MINIMUM OF 40 L.F. TOWARDS THE TEE.



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MSA PROFESSIONAL SERVICES	
BY: ML	REVISION
DATE: 08-03-08	REVISED AS PER PREMIER REVIEW COMMENTS
NO. 1	DATE: 08-03-08
FILE: \\server\Stanchfield\08 Rev08-03-08.dwg	DESIGNED BY: CTG & MLL
PLOT DATE: 08/11/2008	CHECKED BY:
SCALE: AS SHOWN	
Stanchfield Dr. - Sanitary & Water - Plan & Profile	
Aeronautical Industrial Park Town of Fond du Lac Fond du Lac County, Wisconsin	
FILE NO. 193861.0	
SHEET P 6	



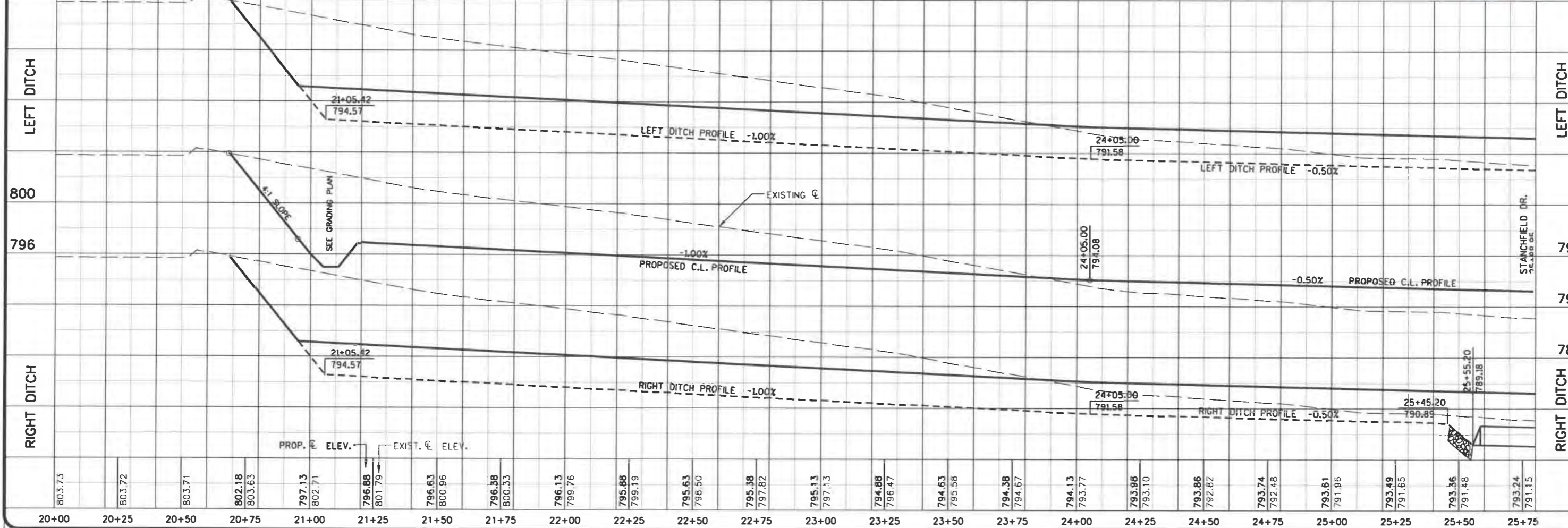
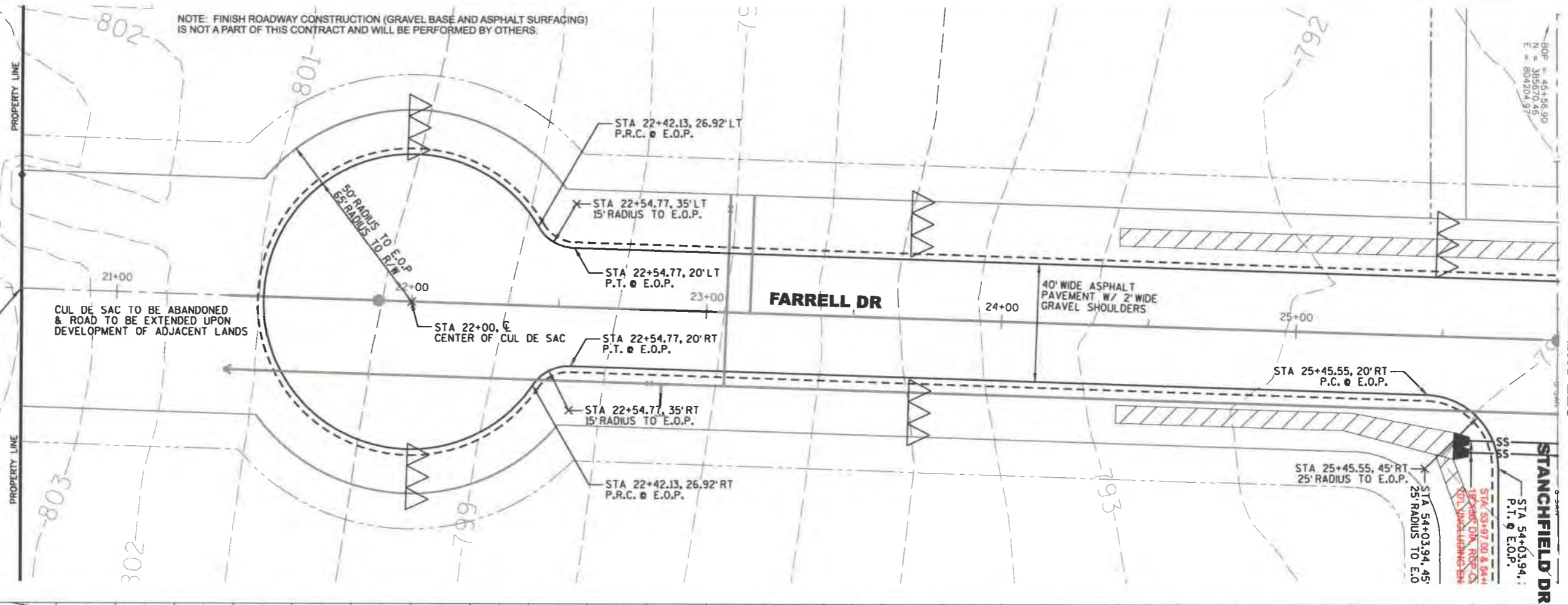


LEGEND
= DITCH CHECK/EROSION BALES
= EROSION MAT (8' WIDE)



BOP = 20+00.00
N = 384885.68
E = 803619.75

NOTE: FINISH ROADWAY CONSTRUCTION (GRAVEL BASE AND ASPHALT SURFACING)
IS NOT A PART OF THIS CONTRACT AND WILL BE PERFORMED BY OTHERS.



SEE SHEET R 4

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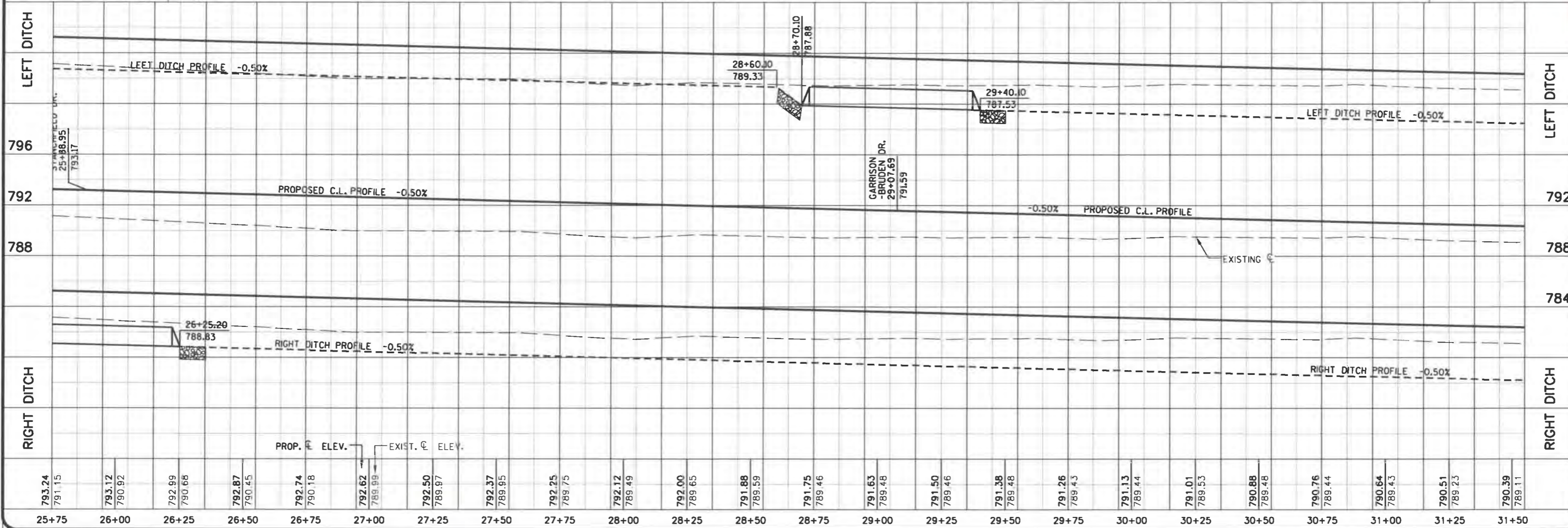
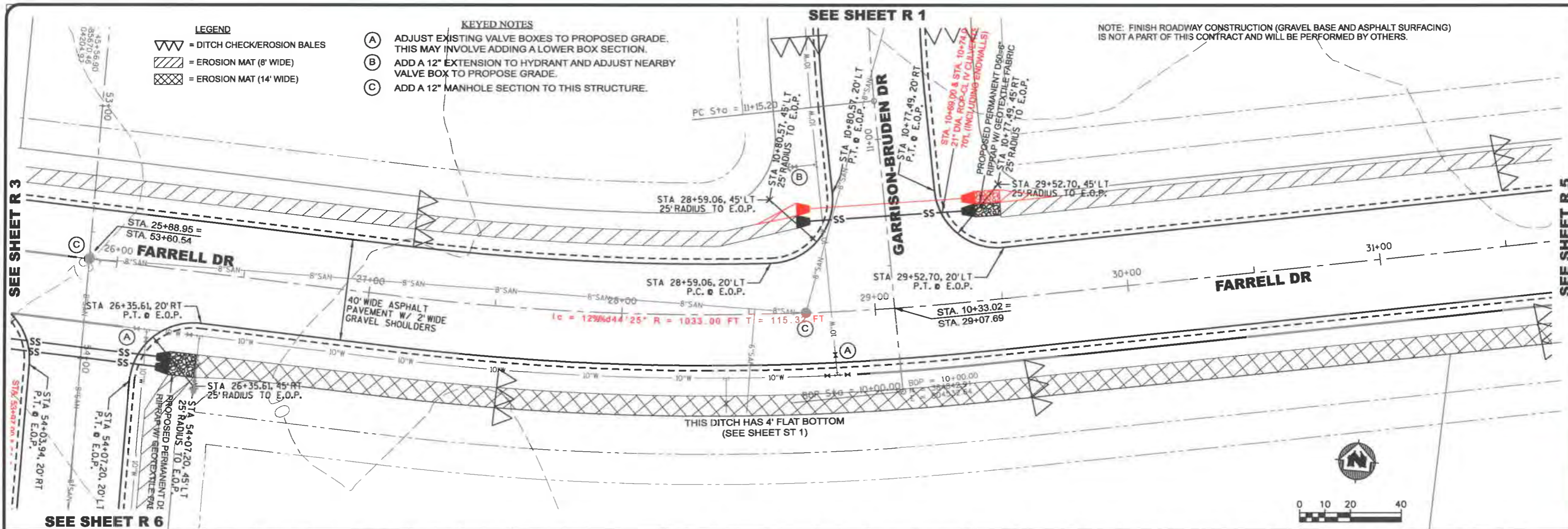
MSA
PROFESSIONAL SERVICES

NO.	DATE	REVISION	BY
1	06/21/2009	REVISION AS PER COMMENTS FROM TOWN OF FOND DU LAC	M.L.

FILE: \\msa\mst\Projects\090101_FondDuLac\090101-FondDuLac.dwg
PLOT DATE: 06/21/2009
DRAWN BY: CTG & M.L.
CHECKED BY:
SCALE: AS SHOWN

Farrell Dr. - Sanitary & Water - Plan & Profile
Aeronautical Industrial Park
Town of Fond du Lac
Fond du Lac County, Wisconsin

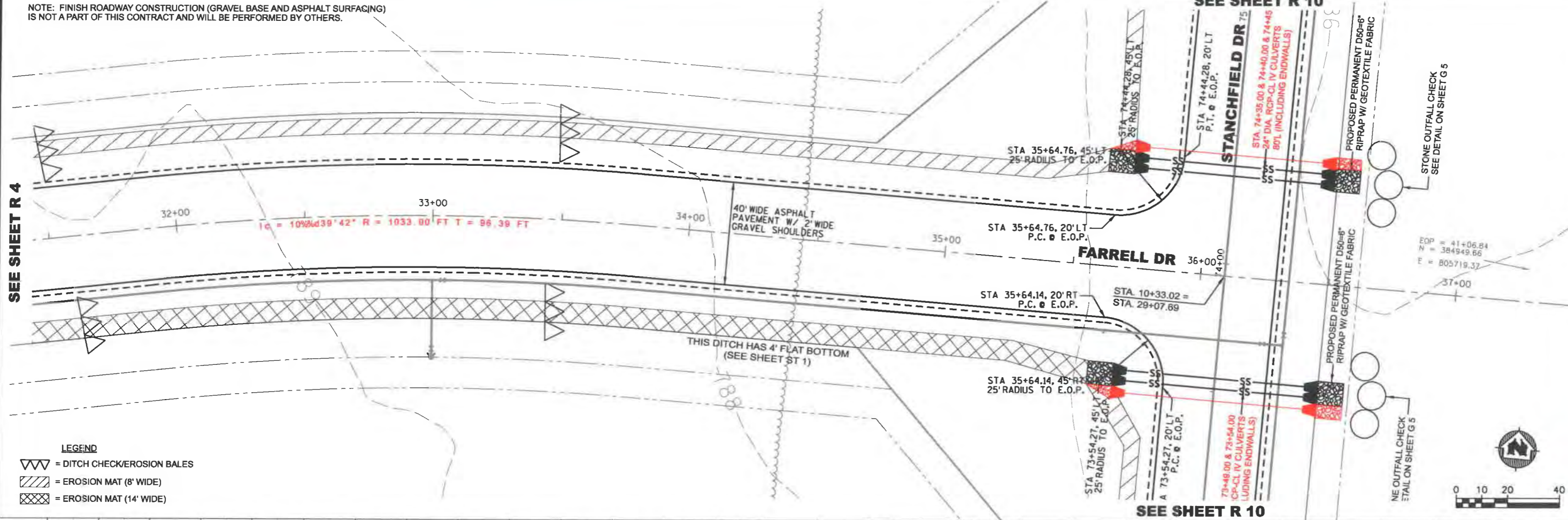
193861.0
R 3



NOTE: FINISH ROADWAY CONSTRUCTION (GRAVEL BASE AND ASPHALT SURFACING)
IS NOT A PART OF THIS CONTRACT AND WILL BE PERFORMED BY OTHERS.

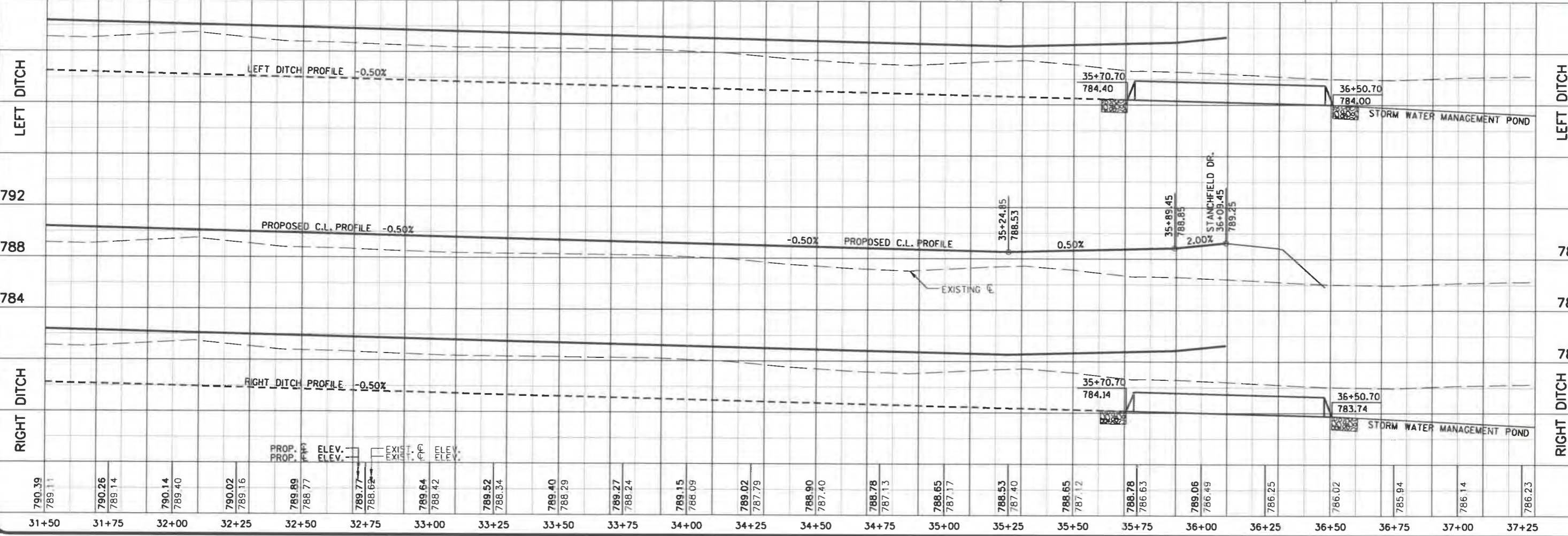
SEE SHEET R 4

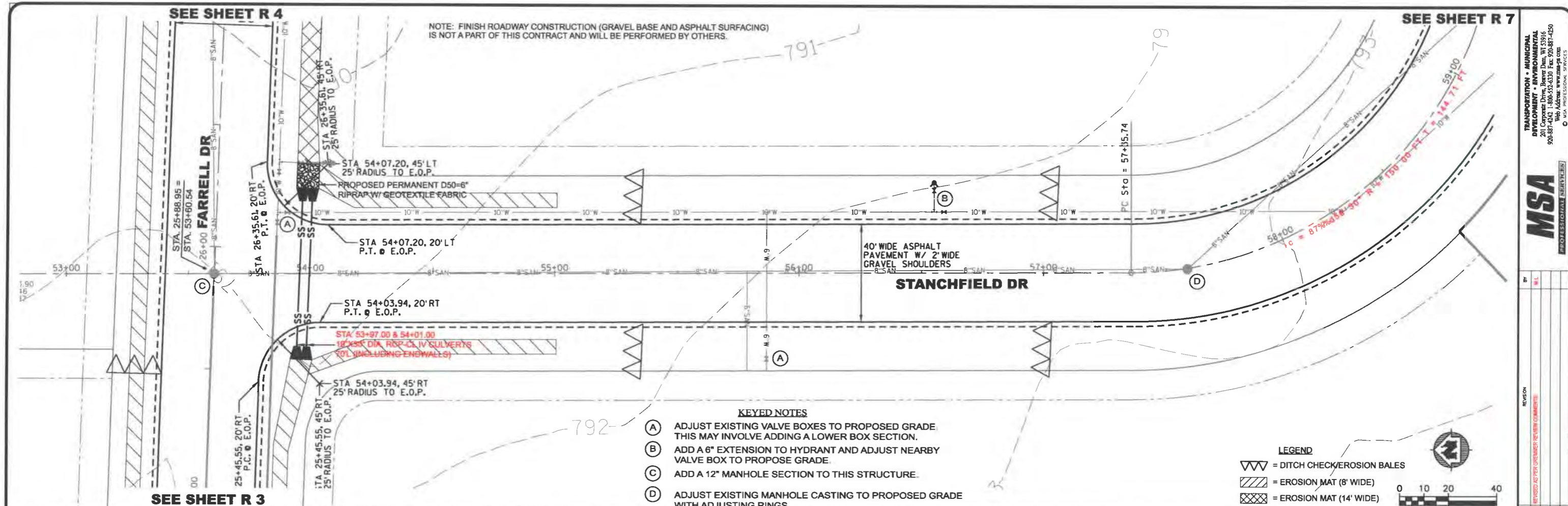
- LEGEND
- = DITCH CHECK/EROSION BALES
 - = EROSION MAT (8' WIDE)
 - = EROSION MAT (14' WIDE)



SEE SHEET R 10

SEE SHEET R 10



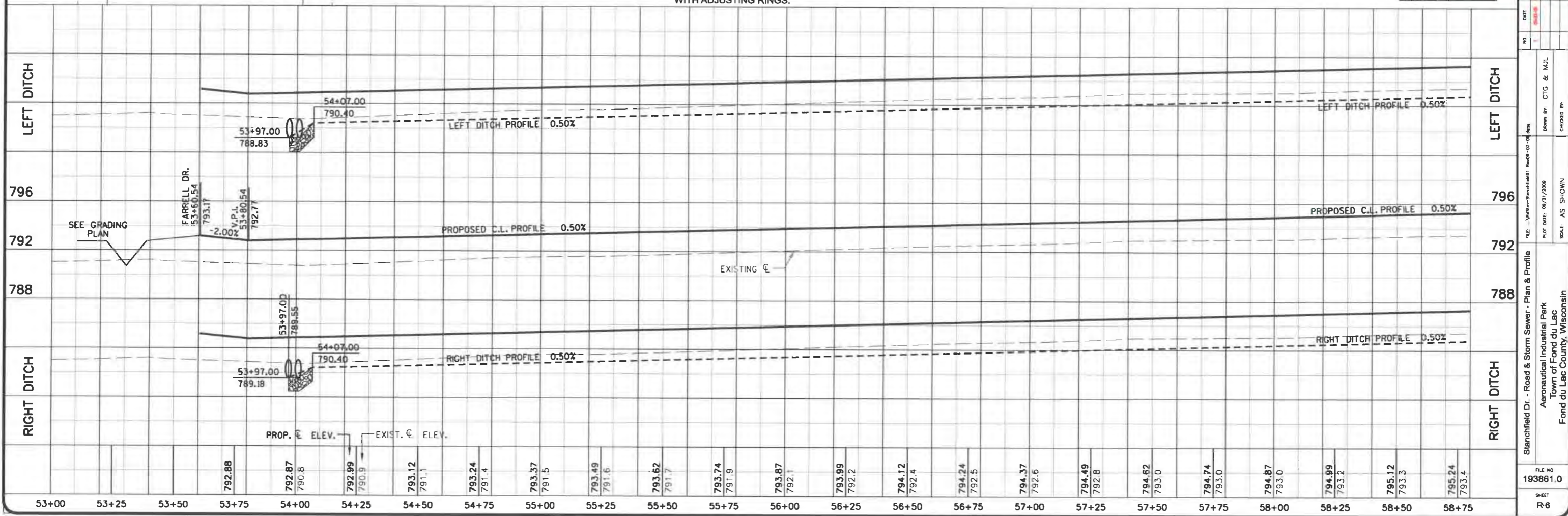


- KEYED NOTES**
- (A) ADJUST EXISTING VALVE BOXES TO PROPOSED GRADE. THIS MAY INVOLVE ADDING A LOWER BOX SECTION.
 - (B) ADD A 6" EXTENSION TO HYDRANT AND ADJUST NEARBY VALVE BOX TO PROPOSED GRADE.
 - (C) ADD A 12" MANHOLE SECTION TO THIS STRUCTURE.
 - (D) ADJUST EXISTING MANHOLE CASTING TO PROPOSED GRADE WITH ADJUSTING RINGS.

LEGEND

- = DITCH CHECK/EROSION BALES
- = EROSION MAT (8' WIDE)
- = EROSION MAT (14' WIDE)

0 10 20 40



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FILE: \Users\Stanchfield_Road-00-04.dwg
 PLOT DATE: 09/21/2009
 SCALE: AS SHOWN

DATE: 09/21/2009
 NO: 1
 REVISION: 1
 DRAWN BY: CTG & MJL
 CHECKED BY:

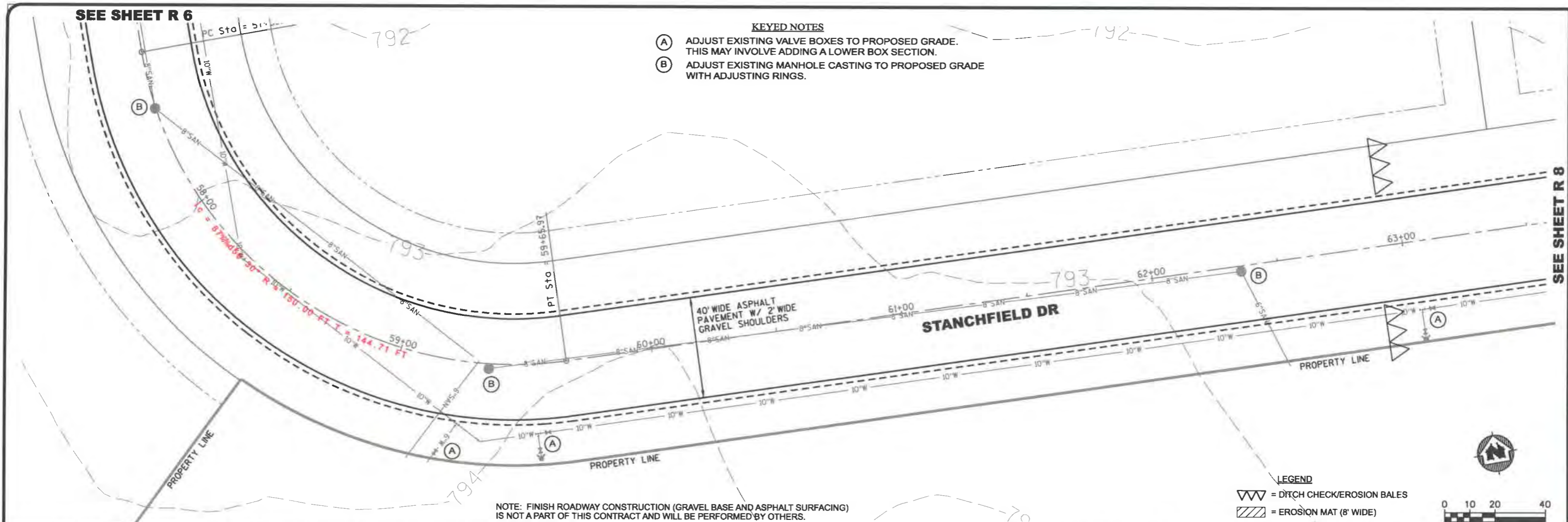
Stanchfield Dr. - Road & Storm Sewer - Plan & Profile
 Aeronautical Industrial Park
 Town of Fond du Lac
 Fond du Lac County, Wisconsin

FILE NO: 193861.0
 SHEET: R 6

SEE SHEET R 6

KEYED NOTES

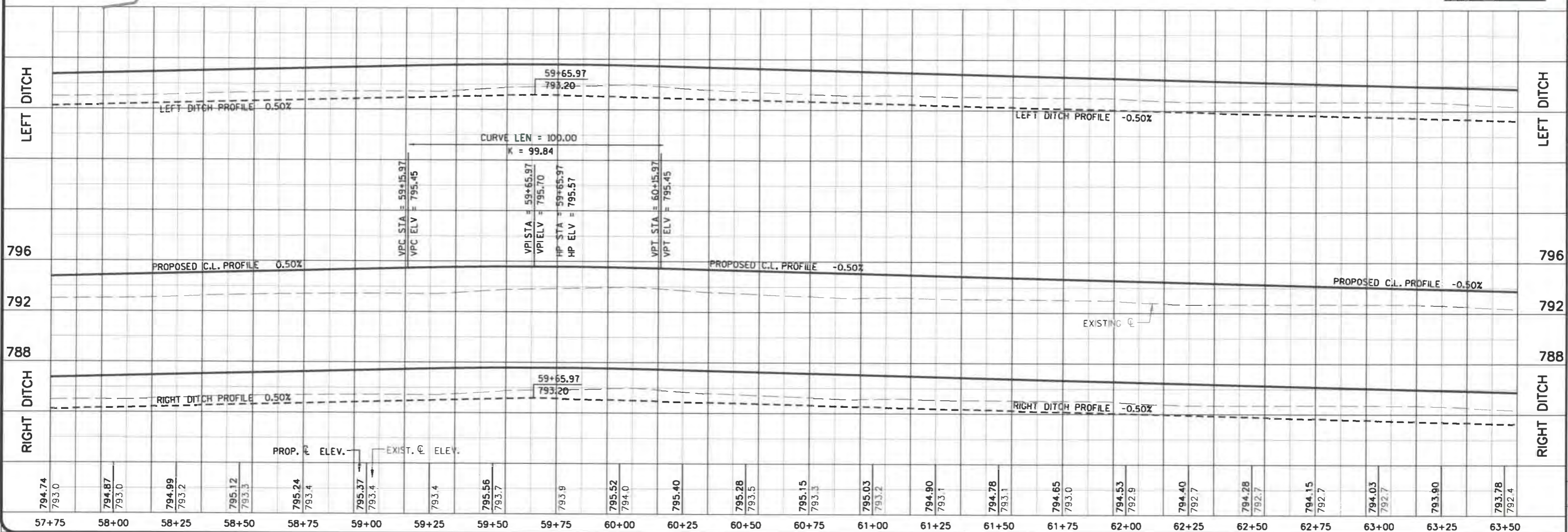
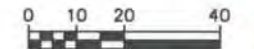
- (A) ADJUST EXISTING VALVE BOXES TO PROPOSED GRADE.
THIS MAY INVOLVE ADDING A LOWER BOX SECTION.
- (B) ADJUST EXISTING MANHOLE CASTING TO PROPOSED GRADE
WITH ADJUSTING RINGS.



LEGEND

W W = DITCH CHECK/EROSION BALES

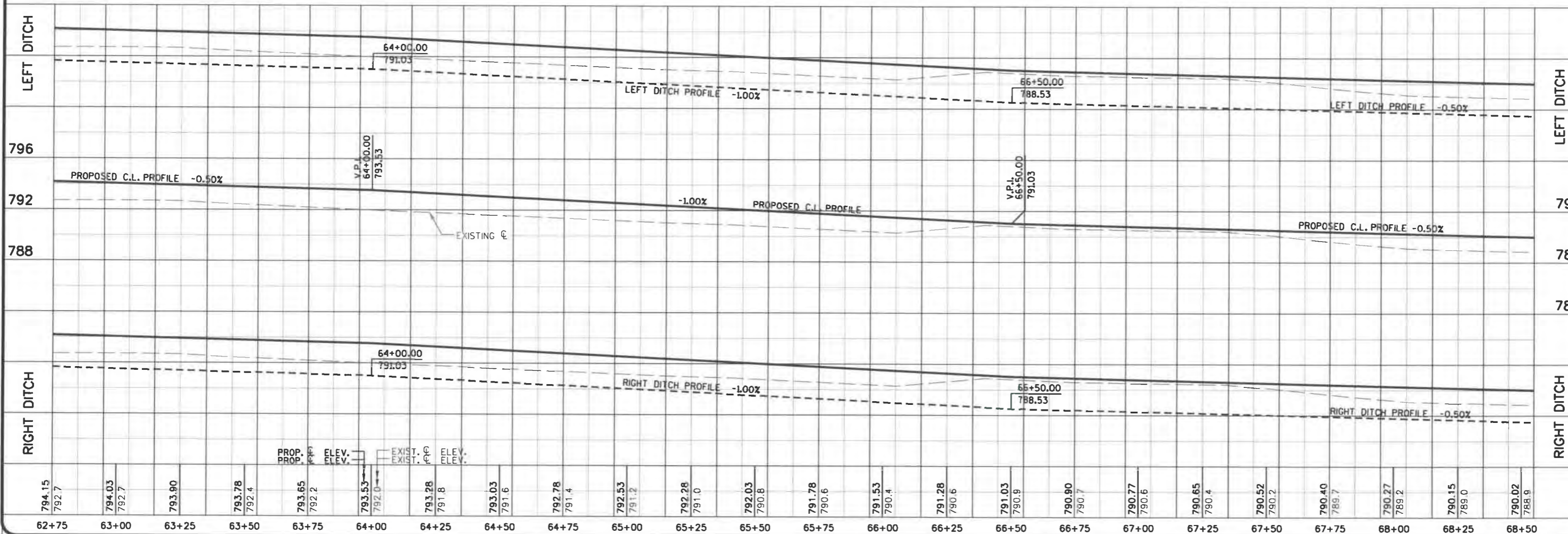
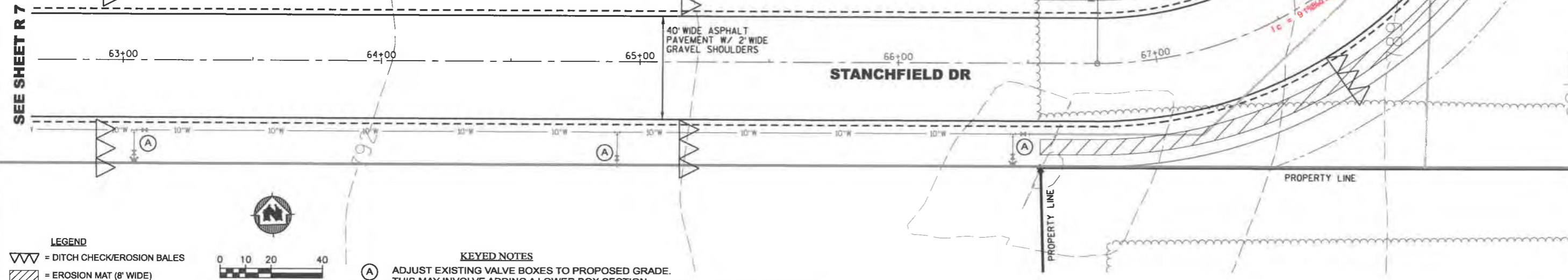
/// = EROSION MAT (8' WIDE)

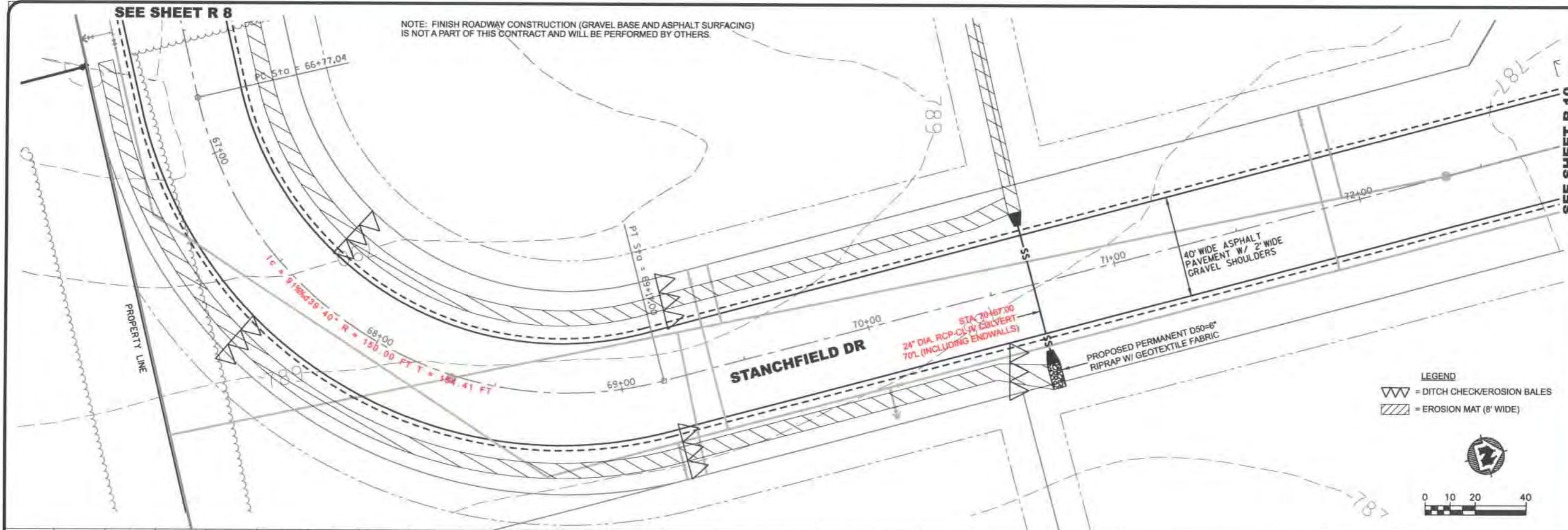


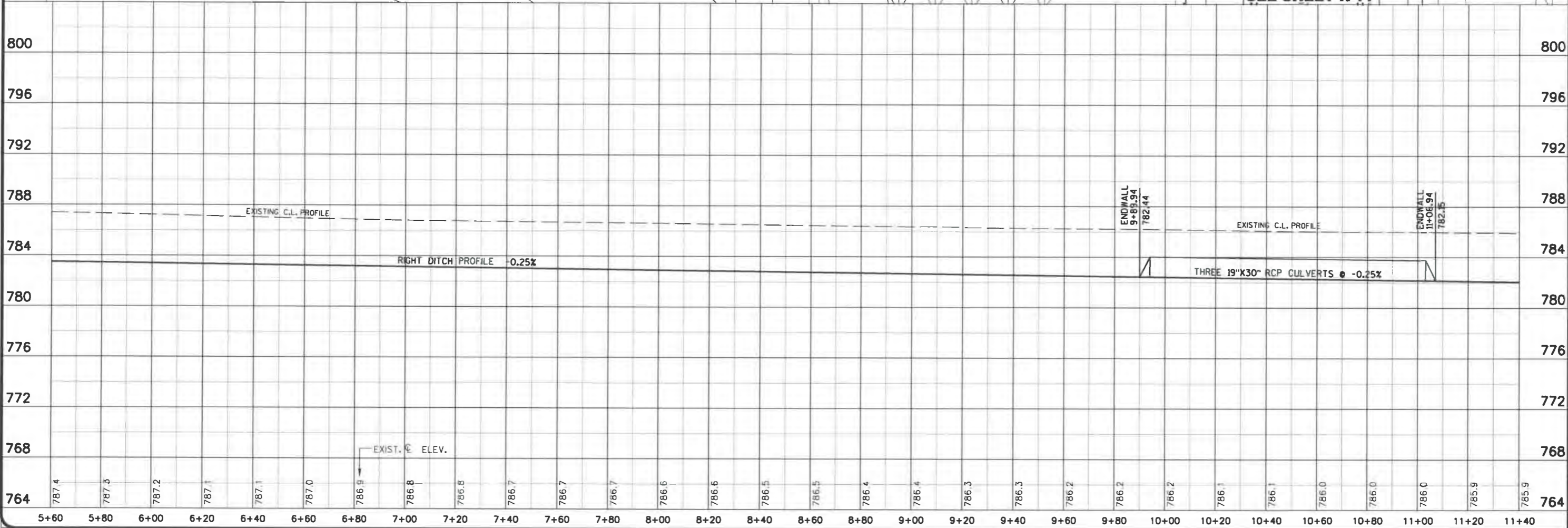
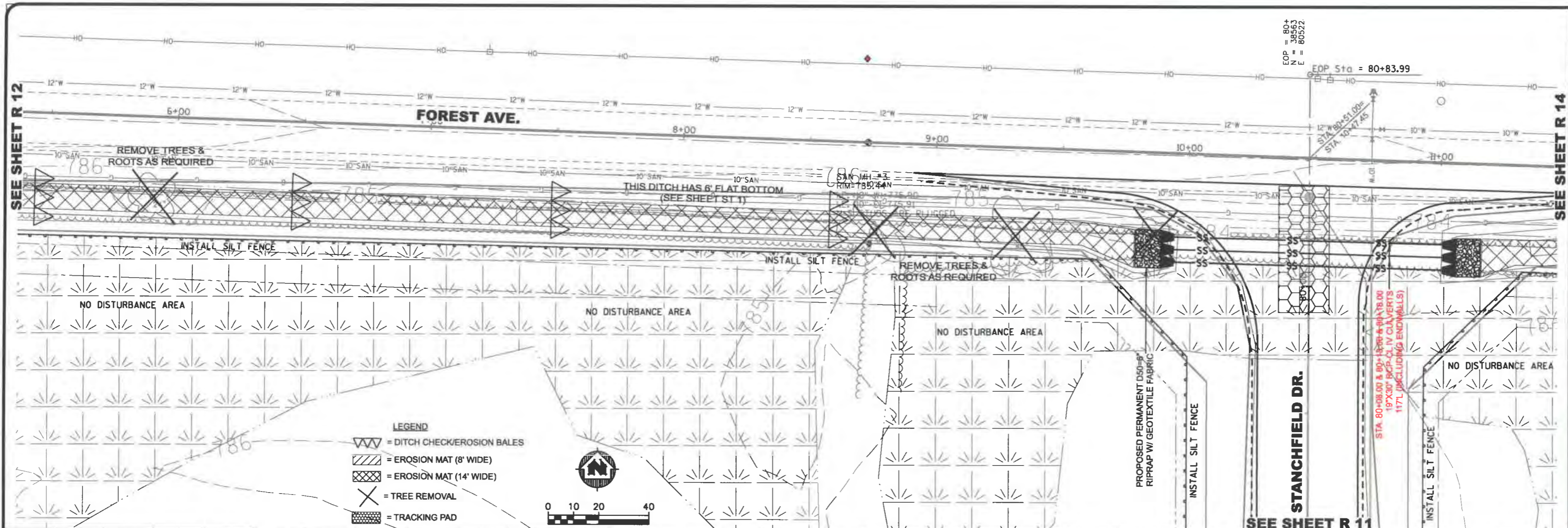
NOTE: FINISH ROADWAY CONSTRUCTION (GRAVEL BASE AND ASPHALT SURFACING)
IS NOT A PART OF THIS CONTRACT AND WILL BE PERFORMED BY OTHERS.

SEE SHEET R 9

SEE SHEET R 7







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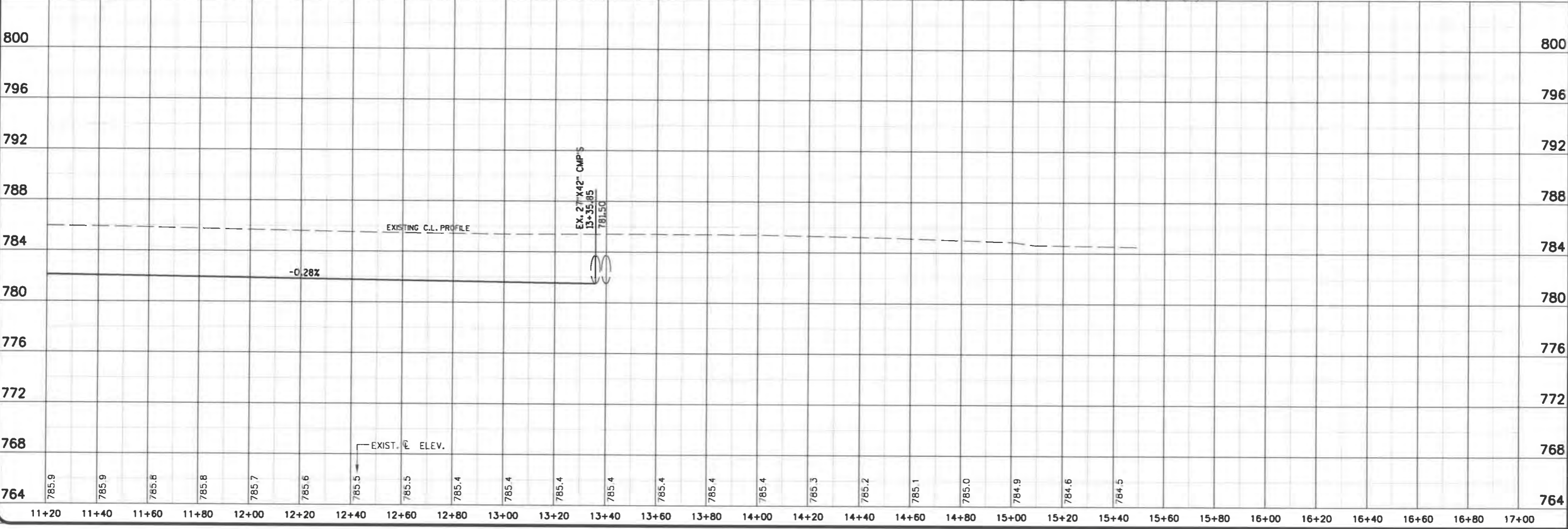
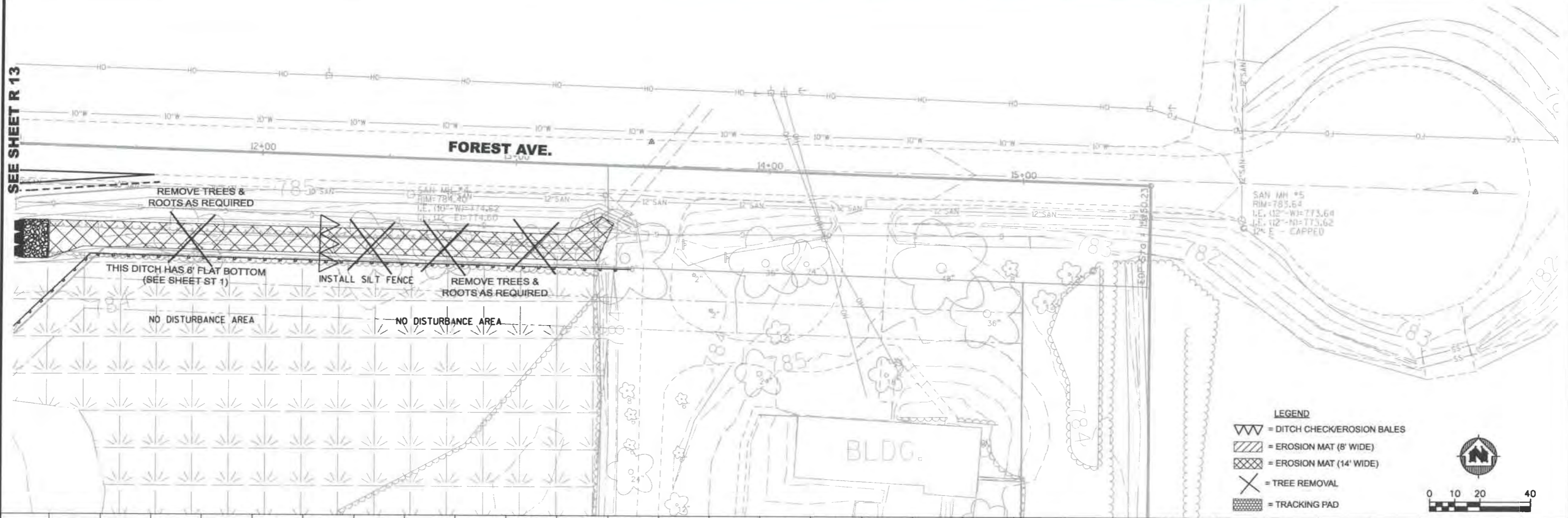
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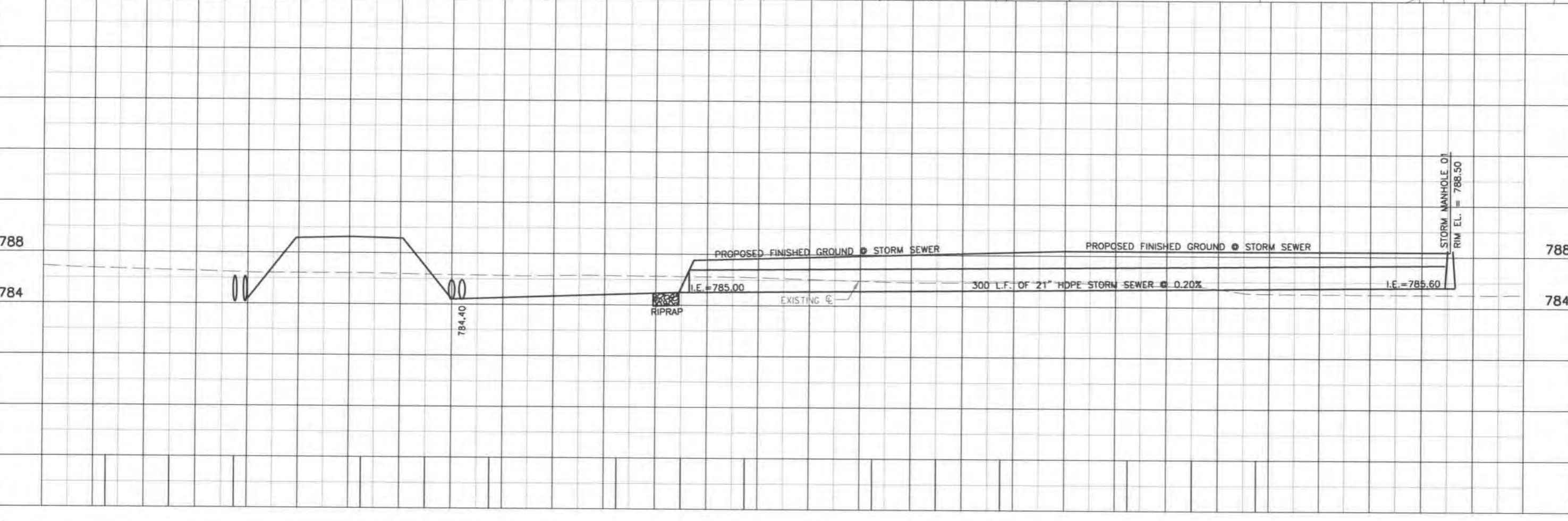
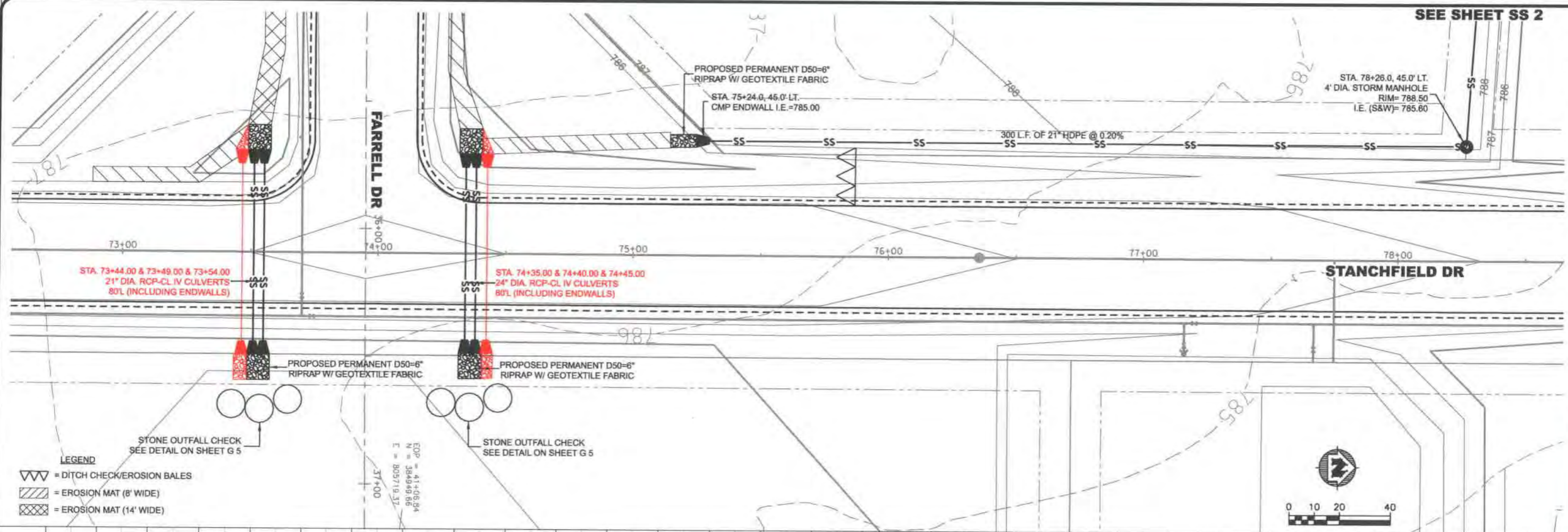
BY	ML
REVISION	
DATE	09-03-09
NO.	
FILE	Vermet02 Rev09-03-03.dgn
PLAT DATE	09/21/2009
SCALE	AS SHOWN
DRAWN BY	CTG & MLL
CHECKED BY	

Forest Avenue - Plan & Profile
Aeronautical Industrial Park
Town of Fond du Lac
Fond du Lac County, Wisconsin

193861.0
SHEET
R 13

SEE SHEET R 13





TRANSPORTATION - MUNICIPAL DEVELOPMENT - ENVIRONMENTAL

MSA

PROFESSIONAL SERVICES

PROJECT NO. 193861.0

DATE: 08/21/2009

DRAWN BY: CTG & MJL

SHEET: SS 1

SCALE: AS SHOWN

CHECKED BY:

PROJECT: Storm Sewer

DATE: 08/21/2009

PROJECT: Aeronautical Industrial Park

LOCATION: Fond du Lac

DATE: 08/21/2009

LOCATION: Fond du Lac County, Wisconsin

PROJECT: Storm Sewer

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LOCATION: Fond du Lac County, Wisconsin

PROJECT: Storm Sewer

DATE: 08/21/2009

GARRISON-BRUDEN DR.

PROPOSED PERMANENT D50-6" RIPRAP W/ GEOTEXTILE FABRIC

STA. 15+87.0, 40.0' RT. CMP ENDWALL I.E. = 786.74

20' STORM SEWER EASEMENT

INSTALL SILT FENCE

INSTALL SILT FENCE

NO DISTURBANCE AREA



NO DISTURBANCE AREA

INSTALL SILT FENCE

PROPOSED RIPRAP

SEE SHEET SS 2

LEGEND

-  = DITCH CHECK/EROSION BALES
 = EROSION MAT (8' WIDE)



STA. 78+26.0, 45.0' LT. 4' DIA. STORM MANHOLE RIM = 788.50 I.E. (S&W) = 785.60

STANCHFIELD DR

788

784

PROPOSED FINISHED GROUND • STORM SEWER

PROPOSED FINISHED GROUND • STORM SEWER

570 L.F. OF 21" HDPE STORM SEWER @ 0.20%

I.E. = 785.60

STORM MANHOLE 01 RIM EL. = 788.50

788

784

Storm Sewer - Plan & Profile
Aeronautical Industrial Park
Town of Fond du Lac
Fond du Lac County, Wisconsin

FILE NO.
193861.0

SHEET
SS 2

REVISION

DATE

BY

FILE

DATE

SCALE

AS SHOWN

DESIGNED BY

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A PART OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 AND A PART OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 17,
TOWNSHIP 15 NORTH, RANGE 17 EAST IN THE TOWN OF FOND DU LAC, FOND DU LAC COUNTY, WISCONSIN.



BEARINGS ARE REFERENCED TO
THE NORTH LINE OF THE NORTHEAST
QUARTER OF SECTION 17, T18N, R17E,
WHICH TO BEARS S 88°00'00" E

Web Address: www.msa-ps.com
 MSA PROFESSIONAL SERVICES

MSA
PROFESSIONAL SERVICES

DATE	NAME	UNIT	FILE
06/21/2009	CTG & MJL		
DRUMIN BY:			
CHECKED BY:			
SCALE:	AS SHOWN		


Aeronautical Industrial Park
Town of Fond du Lac
Fond du Lac County, Wisconsin

FILE NO
93861.0

SHEET
FP 1

- 1 1/2" X 18" IRON ROD SET
(WEIGHING 4.17 lbs./lin. FEET)
- △ PK NAIL SET
- ◆ 3/4 INCH IRON ROD FOUND
- 1 INCH PIPE FOUND

ALL OTHER LOT AND OUTLOT CORNERS
MONUMENTED WITH 3/4" INCH X 18 INCH
REBAR (WEIGHING 1.50 lbs./lin.foot)

 UTILITY EASEMENT

 PLAT BOUNDARY
 LOT LINES
 SECTION LINES
 EXISTING RIGHT OF WAY
 ABUTTING PROPERTY LINES

There are no objections to this plat with respect to Secs. 236.15, 236.16, 236.20 and 236.21(1) and (2), Wis Stats as provided by s. 236.12, Wis. Stats.

Certified _____ 20____

Department of Administration

SURVEYOR'S NOTES:

**PARCEL IS ZONED INDUSTRIAL.
ELEVATIONS ARE BASED ON NAVD 88.
TOTAL AREA = 57.483 ACRES OR 2,503,953 SQUARE FEET.
AREA OF DEDICATION = 10.870 ACRES OR 464,774 SQUARE FEET.**

SHEET 1 OF 2

AERONAUTICAL INDUSTRIAL PARK

A PART OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 AND A PART OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 17, TOWNSHIP 15 NORTH, RANGE 17 EAST IN THE TOWN OF FOND DU LAC, FOND DU LAC COUNTY, WISCONSIN.

Utility Easement Provision:

An easement for electric and communication facilities is hereby granted Fond du lac County, the Grantor, to Wisconsin Power and Light Company, the Grantee, their respective successors and assigns, to construct, install, operate, repair, maintain and replace from time to time, said facilities and associated appurtenances used in connection with overhead and underground distribution of electricity and electric energy for such purposes as the same is now or may hereafter be used and for sounds and signals. All in over, under, across, along and upon the property shown within those areas on the plat designated as "utility easement areas" and the property designated on the plat for streets and alleys, whether public or private, together with the right to install service connections upon, across, within and beneath the surface of each lot to serve improvements thereon, or on adjacent lots: Also the right of access to the easement; Also the right to trim and cut down trees, brush and roots as may be reasonably required incident to the rights herein given; Also the right to remove and clear all obstructions from the surface and subsurface as may be reasonable required incident to the rights herein given. The Grantees agree to restore or cause to have restored, the property, as nearly as is reasonably possible, to the condition existing prior to such entry by the Grantees or their agents. This restoration, however, does not apply to the initial installation of said underground and/or above ground electrical facilities or communication facilities or to any trees, brush or roots which may be removed at any time pursuant to the rights herein granted. Buildings, structures, obstructions and planting of trees shall not be placed within the lines marked "utility easement areas" without the prior written consent of Grantees. After installation of any such facilities, the grade of the subdivided property shall not be altered by more than six inches without written consent of Grantees.

The Grant of easement shall be binding upon and inure to the benefit of the heirs, successors and assigns of all parties hereto.

CURVE TABLE

Curve	Delta Angle	Chord Bearing	Radius	Arc Length	Chord Length	Tangent Bearing (if not shown)
C1	104°02'24"	S 88°09'57" E	85.00'	118.03'	102.47'	S 36°08'45" E N 39°48'51" E
C2	104°02'24"	S 88°09'57" E	85.00'	118.03'	102.47'	S 36°08'45" E N 39°48'51" E
C3	19°14'37"	N 11°32'22.5" E	210.00'	70.53'	70.20'	
C4	19°14'37"	N 11°32'22.5" E	290.00'	97.40'	98.94'	
C5	32°04'03"	N 05°07'39.5" E	540.00'	302.23'	298.30'	
C6	32°04'03"	N 05°07'39.5" E	480.00'	257.45'	254.11'	
C7	98°08'24"	N 37°08'50" E	30.00'	50.34'	44.84'	N 85°14'02" E
C8	90°00'00"	S 55°54'22" E	30.00'	47.12'	42.43'	
C9	06°36'01"	N 88°32'02.5" E	993.00'	114.39'	114.33'	N 85°14'02" E
C10	12°44'25"	N 85°27'50.5" E	1073.00'	238.59'	238.10'	
C11	10°39'43"	N 84°25'29.5" E	1073.00'	199.38'	199.67'	
C12	10°39'43"	N 84°25'29.5" E	993.00'	184.78'	184.51'	
C13	87°55'18"	S 44°12'18" E	30.00'	46.04'	41.65'	
C14	92°04'42"	N 45°47'42" E	30.00'	48.21'	43.19'	
C15	87°54'26"	S 44°11'52" E	110.00'	188.77'	152.70'	
C16	45°15'59"	S 22°52'38.5" E	190.00'	150.11'	148.24'	S 45°30'38" E
C17	43°03'54"	S 66°37'08" E	188.00'	141.31'	138.00'	S 45°05'11" E
C18	91°41'44"	N 48°00'03" E	190.00'	304.07'	272.65'	
C19	91°41'44"	N 48°00'03" E	110.00'	176.04'	157.85'	
C20	19°14'37"	N 11°32'22.5" E	250.00'	83.97'	83.57'	
C21	32°04'03"	N 05°07'39.5" E	500.00'	279.84'	276.20'	
C22	12°44'25"	N 85°27'50.5" E	1033.00'	229.70'	229.23'	
C23	10°39'43"	N 84°25'29.5" E	1033.00'	192.22'	191.95'	
C24	87°54'26"	S 44°11'52" E	150.00'	230.14'	208.22'	
C25	91°41'44"	N 48°00'03" E	150.00'	240.06'	215.25'	

City of Fond du Lac Plan Commission Certificate

STATE OF WISCONSIN)
FOND DU LAC COUNTY) ss

Approved this _____ day of _____, 2009.
City of Fond du Lac Plan Commission.

Chairman

Recording Secretary

Corporate Owner's Certificate of Dedication

Fond du Lac County, a corporation duly organized and existing under and by virtue of the laws of the State of Wisconsin, as owner, does hereby certify that Fond du Lac County has caused the land described on this plat to be surveyed, divided, mapped, and dedicated as represented on this plat.

Fond du Lac County, does further certify that this plat is required by s.236.10 or s.236.12 to be submitted to the following for approval or objection:

Department of Administration - Plat Review
Town of Fond du Lac
Fond du Lac County Planning Department
City of Fond du Lac

IN WITNESS WHEREOF, the said Fond du Lac County has caused these presents to be signed by Martin F. Farrell, County Board Chairman and Lisa Freiburg, County Clerk, on this _____ day of _____, 2009.

Martin F. Farrell, County Board Chairman

Lisa Freiburg, County Clerk

STATE OF WISCONSIN)
FOND DU LAC COUNTY) ss

Personally came before me this _____ day of _____, 2009, Martin F. Farrell and Lisa Freiburg of the above named Fond du Lac County, to me known to be the persons who executed the foregoing Instrument, and to me known to be such officials of Fond du Lac County, and acknowledged the execution of the foregoing instrument as such officials of Fond du Lac County, by its authority.
(Notary Seal)

Notary Public, _____, Wisconsin
My commission expires _____.

Certificate of Town Treasurer

STATE OF WISCONSIN)
FOND DU LAC COUNTY) ss

I, Jody Roffers, being duly (elected) (appointed) qualified and acting Town Treasurer of the Town of Fond du Lac, do hereby certify that in accordance with the records in my office, there are no unpaid taxes or unpaid special assessments as of this _____ day of _____, 2009 on any of the lands included in this plat.

Date

Town Treasurer

County Treasurer's Certificate

STATE OF WISCONSIN)
FOND DU LAC COUNTY) ss

I, Judeen Damm, being the duly elected, qualified and acting treasurer of the County of Fond du Lac, do hereby certify that the records in my office show no unredeemed tax sales and no unpaid taxes or special assessments as of this _____ day of _____, 2009 affecting the lands included in this plat.

Date

County Treasurer

Surveyors Certificate

I, Michael J. Laue, Land Surveyor, State of Wisconsin, do hereby certify that I have made a survey of a part of the Northeast 1/4 of the Northwest 1/4 and a part of the Northwest 1/4 of the Northeast 1/4 of Section 17, Township 15 North, Range 17 East in the Town of Fond du Lac, Fond du Lac County, Wisconsin. The parcel is more particularly described as follows.

Commencing at the North 1/4 Corner of said Section 17; thence S.88°05'06"E, 677.17 feet along North line of the Northeast 1/4 of said Section 17 and the centerline of Forest Avenue; thence S.00°11'23"W., 1328.31 feet along the East line of the West 1/2 of the Northwest 1/4 of the Northeast 1/4 of said Section 17; thence N.88°09'05"W., 1368.61 feet along the South line of the Northwest 1/4 of the Northeast 1/4 of said Section 17 and a westerly extension thereof also being along the North line of Certified Survey Map (CSM) 7362; thence continuing along the north line of said CSM 141.31 feet Northwestery along the arc of a curve to the right, having a radius of 188.00 feet, a chord bearing of N.66°37'08"W., a chord length of 138.00 feet, and thru an angle of 43°03'54"; thence S.46°05'31"W., 71.24 feet along the North line of said CSM 7362; thence N.88°09'57"W., 488.24 feet along the North line of said CSM 7362; thence N.00°02'06"W., 921.39 feet along the West line of the Northeast 1/4 of the Northwest 1/4 of said Section 17; thence S.88°04'56"E., 490.00 feet along the South line of Lot 1 of CSM 2085; thence N.00°02'06"W., 410.02 feet along the East line of said CSM; thence S.88°04'56"E., 873.06 feet along the North line of the Northwest 1/4 of said Section 17 to the point of commencement.

I further certify that this plat is a correct representation of the exterior boundaries of the land surveyed and the subdivision thereof made, that I have made such survey, land division and plat by the direction of the owner of said land, and that I have fully complied with the provisions of Chapter 236 of the revised Wisconsin Statutes and the Subdivision Control Ordinance for the Town of Fond du Lac, Fond du Lac County, Wisconsin in surveying, dividing, and mapping the same.

Michael J. Laue, WI Land Surveyor, S-1435
MSA Professional Services, Inc.
201 Corporate Drive, Beaver Dam, WI 53916

Town Board Approval Certificate

Resolved, that the plat of Aeronautical Industrial Park in the Town of Fond du Lac, Fond du Lac County, owner, is hereby approved by the town board.

Date

Harold C. Manske, Chairperson

I hereby certify that the foregoing is a copy of a resolution adopted by the town board of the Town of Fond du Lac, Fond du Lac County, Wisconsin.

Patti S. Supple, Town Clerk

County Planning Agency Approval Certificate

STATE OF WISCONSIN)
FOND DU LAC COUNTY) ss

Approved in accordance with the Subdivision Control Ordinance this _____ day of _____, 2009.

County Planner

There are no objections to this plat with respect to Secs. 236.15, 236.16, 236.20 and 236.21(1) and (2), Wis Stats, as provided by s. 236.12, Wis. Stats.

Certified _____, 20 _____

Department of Administration



SHEET 2 OF 2

A. CONTRACTOR OPERATIONS AND ACTIVITIES.

The Contractor shall conduct his operations on the Airport in a manner that will minimize interference with the normal operation of those Airport facilities that are designated under this Contract to remain open to air traffic and shall implement all specified and other appropriate measures to ensure the safety of all users of the Airport.

When construction activities occur near active runways or taxiways, the Contractor shall provide sufficient flag persons to direct construction equipment and safeguard aircraft traffic. At the close of each work day, the Contractor shall leave the site in a safe condition for operation of aircraft. The Contractor shall furnish and place portable barricades across runways or taxiways to keep vehicles from entering active runway or taxiway areas and to keep aircraft from taxiing into areas under construction. At night, barricades shall be equipped with red flashing lights. Barricades shall have alternating colors of international orange and white and shall meet the requirements of section 3-9b of FAA Advisory Circular 150/5370-2 (current edition).

B. RUNWAY ENDS.

The Contractor shall not allow any construction equipment to penetrate above the plane of the 20:1 approach slope of any active runway.

C. RUNWAY EDGES.

Contractor shall not perform construction activities within 200 feet of the centerline of an active runway.

D. TAXIWAYS AND APRONS.

Except as provided on the Contract Plans or in the Contract Special Provisions the Contractor shall not perform construction activities within 25 feet of the edge of an active taxiway or apron. When so authorized to perform construction activities within such areas, the Contractor shall first implement appropriate marking and lighting provisions. Construction equipment and materials shall not be allowed to project higher than any part of aircraft, using such taxiways and aprons, which may overhang such work areas.

E. EXCAVATIONS AND TRENCHES.

Excavations and open trenches located within 200 feet from the centerline of an active runway shall not be permitted. Excavations and open trenches located adjacent to taxiway and apron pavements shall be adequately signed, marked, and lighted.

F. STORAGE OF EQUIPMENT AND MATERIALS.

Equipment and materials shall not be stored or parked within 750 feet from the centerline of an active runway or within 200 feet from the centerline of an active taxiway, unless specifically provided in the Contract Plans, Special Provisions or authorized in writing by the Engineer. Debris shall not be deposited on any portion of an operational runway, taxiway, or apron. Should debris be deposited accidentally, it shall be removed immediately.

G. CONTRACTOR'S VEHICLES.

All motorized vehicles operated by the Contractor on the Airport shall be equipped with a 3-foot square flag of a checkered pattern of international orange and white squares of not less than 1 foot on each side, displayed in full view above the vehicle or flashing yellow beacons appropriate for the purpose. For periods of limited visibility or darkness, the vehicles shall also be equipped with light units appropriate for the purpose.

Contractor's equipment operating on the Airport shall be marked by identifying markings or features such as appropriate names or logos.

H. WARNING MARKERS.

The cost of furnishing, installing, and maintaining visible warning markers, flag persons, and other safety devices as herein required shall be included in the Pay Item for Traffic Control.

Contractor shall be responsible for construction operations and shall comply with applicable requirements of the Federal Aviation Administration (FAA), Wisconsin Bureau of Aeronautics (WBOA), and Fond du Lac County (Airport Owner). In addition to other requirements of the Contract, Contractor shall provide the following:

A. Construction Schedule. Contractor shall submit a construction schedule in accordance with Section 80 of the General Requirements and Covenants. The construction schedule shall be based on the following conditions:

- 1) The airport shall not be closed to air traffic during construction except under conditions described herein.
- 2) Runway 18/36 and 9/27 shall be open for the life of the project.

B. Operational Safety. Contractor shall comply with requirements of FAA Advisory Circular (AC) 150/5370-2 (current edition) "Operational Safety on Airports During Construction." Advisory Circulars are available from FAA, WBOA, and Engineer.

C. Runway and Taxiway Closing. None.

D. Construction Equipment. Equipment height shall not exceed 20 feet without prior approval.

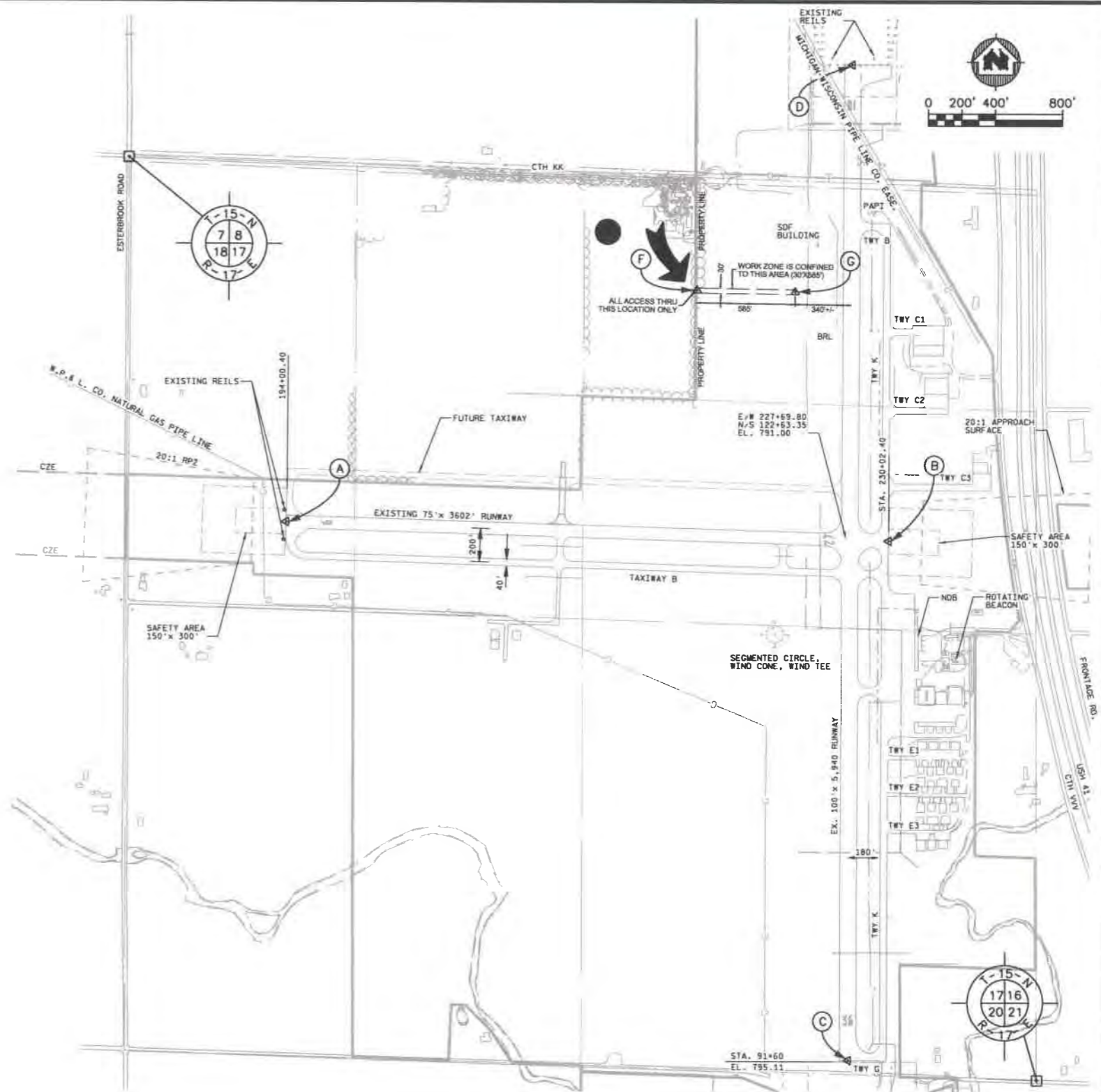
E. Notices to Airmen (NOTAMs). Contractor shall provide notice to the Airport Manager and coordinate his construction schedule to allow the NOTAMs, required by FAA regulations, to be issued.

F. Emergency Maintenance. Contractor shall have a superintendent on call 24 hours per day to provide maintenance of Airport construction hazard lighting and barricades, if required.

G. Construction Operation. Contractor's activities are limited to areas within the grading limits and other areas designated for Contractor's operations on the plans. Contractor's operations shall not travel along or across active runways, taxiway, or aprons without authorization from Airport Manager.

H. Work Access. Access to the project shall be by entrances from the Industrial Park where shown on the plans. Contractor shall make his own estimate of the ability of designated paved haul routes to withstand traffic.

I. Contractor's Safety Plan. Contractor shall develop a safety plan in accordance with AC 150/5370-2 (current edition) and present it at the pre-construction conference. Contractor shall inform all Contractor's employees of the Plan requirements and shall monitor and update the Plan as required.



RSA	RUNWAY SAFETY AREA
OFA	OBJECT FREE AREA
RPZ	RUNWAY PROTECTION ZONE
CZE	CLEAR ZONE EASEMENT
<u>P.L.</u>	AIRPORT PROPERTY LINE
	CONTRACTOR ACCESS HAUL ROUTE
	CONTRACTOR STAGING AREA

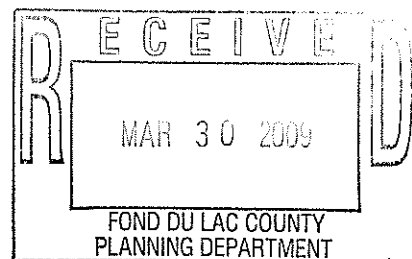
PT ID	DESCRIPTION	STA	OFFSET	LATITUDE (NORTH)	LONGITUDE (WEST)	ELEVATION
A	RWY 9 END	194+00.4		43°46'17.843"	88°29'56.175"	
B	RWY 27 END	230+02.4		43°46'16.810"	88°29'07.107"	
C	RWY 36 END	91+60		43°45'46.230"	88°29'10.313"	
D	RWY 18 END	151+00		43°46'44.890"	88°29'10.242"	
F	WORK ZONE C.L. @ PROPERTY LINE	137+50	925' LT.	43°46'31.547"	88°29'22.875"	779.1
G	WORK ZONE C.L. TERMINUS	137+42	340' LT.	43°46'31.471"	88°29'14.904"	784.9

MAX. HEIGHT OF EQUIPMENT IN WORK ZONE = 20'
MAX. HEIGHT OF MATERIAL STORAGE IN WORK ZONE = 10'



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
ST. PAUL DISTRICT, CORPS OF ENGINEERS
SIBLEY SQUARE AT MEARS PARK
190 FIFTH STREET EAST, SUITE 401
ST. PAUL MN 55101-1638



March 26, 2009

Operations
Regulatory (2008-03220-TMV)

Mr. Sam Tobias
Fond du Lac County
160 S. Macy Street
Fond du Lac, Wisconsin 54935

Dear Mr. Tobias:

This is in further response to the request for a jurisdictional determination on the 75-acre parcel (Part 1) of the Fond du Lac County Airport Industrial Park. The project site is located in the NE¼ of Section 17, T. 15N., R. 17E., Fond du Lac County, Wisconsin.

By letter dated August 4, 2008, we provided concurrence with the wetland delineation report completed by MSA. The wetland delineation remains valid for a period of five years, unless new information warrants revision of the delineation before the expiration date.

It is recommended that the delineated wetland boundaries be surveyed and identified on any development plans or sale agreements prepared for this property.

As agreed, a preliminary jurisdictional determination (JD) has been prepared for this site. The preliminary JD is not appealable. At any time, you may request an approved JD (which may be appealed), by contacting the Corps representative identified in the final paragraph of this letter. You may also provide new information for further consideration by the Corps to reevaluate the JD. If this JD is acceptable please sign and date both copies of the Preliminary Jurisdictional Determination Form and return one copy to the address below.

U.S. Army Corps of Engineers
Attn: Todd Vesperman
211 N. Broadway, Suite 216
Green Bay, Wisconsin 54303

This delineation/determination has been conducted to identify the limits of the Corps Clean Water Act jurisdiction for the particular site identified in this request. This delineation/determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985, as amended. If you or your tenant are USDA program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service prior to starting work.


Operations
Regulatory (2008-03220-TMV)

-2 -

Thank you for your cooperation with the U.S. Army Corps of Engineers regulatory program. If you have any questions, contact Todd Vesperman in our Green Bay Field Office at (920) 448-2824. In any correspondence or inquiries, please refer to the Regulatory number shown above.

Sincerely,

A handwritten signature in black ink, appearing to read "Todd Vesperman", with a long horizontal flourish extending to the right.

 Tamara E. Cameron
Chief, Regulatory Branch

Copy furnished:
Crystal Schiefelbein – WDNR
Ann Dansart – MSA

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

District Office	St. Paul District	File/ORM #	2008-3220-TMV	PJD Date:	Mar 26, 2009
State	WI	City/County	Fond du Lac/Fond du Lac County	Name/Address of Person Requesting PJD	Mr. Sam Tobias Fond du Lac County 160 South Macy Street Fond du Lac, WI 54935
Nearest Waterbody:	Unnamed Tributary				
Location: TRS, Lat/Long or UTM:	NE of Sec. 17, Township 15N., Range 17E.				
Identify (Estimate) Amount of Waters in the Review Area:			Name of Any Water Bodies on the Site Identified as Section 10 Waters:		
Non-Wetland Waters:			Tidal:		
linear ft width acres			Non-Tidal:		
Stream Flow:					
Wetlands: 1.44 acre(s) Cowardin Class: Palustrine, emergent			<input checked="" type="checkbox"/> Office (Desk) Determination <input checked="" type="checkbox"/> Field Determination: Date of Field Trip: Oct 22, 2008		

SUPPORTING DATA: Data reviewed for preliminary JD (check all that apply - checked items should be included in case file and, where checked and requested, appropriately reference sources below):

- ☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Report by MSA
- ☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
 - ☒ Office concurs with data sheets/delineation report.
 - ☐ Office does not concur with data sheets/delineation report.
- ☐ Data sheets prepared by the Corps
- ☐ Corps navigable waters' study:
- ☒ U.S. Geological Survey Hydrologic Atlas:
 - ☒ USGS NHD data.
 - ☐ USGS 8 and 12 digit HUC maps.
- ☐ U.S. Geological Survey map(s). Cite quad name:
- ☒ USDA Natural Resources Conservation Service Soil Survey. Citation: Fond du Lac County
- ☐ National wetlands inventory map(s). Cite name:
- ☐ State/Local wetland inventory map(s):
- ☐ FEMA/FIRM maps:
- ☐ 100-year Floodplain Elevation is:
- ☒ Photographs: ☒ Aerial (Name & Date): NAIP 2005 and 2006
 - ☐ Other (Name & Date):
- ☐ Previous determination(s). File no. and date of response letter:
- ☒ Other information (please specify): DNR Rivers and Streams Data

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Todd Veger 3/26/2009
Signature and Date of Regulatory Project Manager
(REQUIRED)

Signature and Date of Person Requesting Preliminary JD
(REQUIRED, unless obtaining the signature is impracticable)

EXPLANATION OF PRELIMINARY AND APPROVED JURISDICTIONAL DETERMINATIONS:

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "preconstruction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable.

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

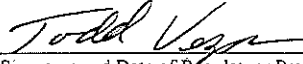
This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

District Office	St. Paul District	File/ORM #	2008-3220-TMV	PJD Date:	Mar 26, 2009
State	WI	City/County	Fond du Lac/Fond du Lac County	Name/ Address of Person Requesting PJD	Mr. Sam Tobias Fond du Lac County 160 South Macy Street Fond du Lac, WI 54935
Nearest Waterbody:	Unnamed Tributary				
Location: TRS, Lat/Long or UTM:	NE of Sec. 17, Township 15N., Range 17E.				
Identify (Estimate) Amount of Waters in the Review Area:				Name of Any Water Bodies on the Site Identified as Section 10 Waters:	
Non-Wetland Waters:				Tidal:	
linear ft width acres				Non-Tidal:	
Stream Flow:					
Wetlands: 1.44 acre(s) Cowardin Class: Palustrine, emergent				Date of Field Trip: Oct 22, 2008	
				<input checked="" type="checkbox"/> Office (Desk) Determination <input checked="" type="checkbox"/> Field Determination	

SUPPORTING DATA: Data reviewed for preliminary JD (check all that apply - checked items should be included in case file and, where checked and requested, appropriately reference sources below):

- ☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Report by MSA
- ☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
 - ☒ Office concurs with data sheets/delineation report.
 - ☐ Office does not concur with data sheets/delineation report.
- ☐ Data sheets prepared by the Corps
- ☐ Corps navigable waters' study:
- ☒ U.S. Geological Survey Hydrologic Atlas:
 - ☒ USGS NHD data.
 - ☐ USGS 8 and 12 digit HUC maps.
- ☐ U.S. Geological Survey map(s). Cite quad name:
- ☒ USDA Natural Resources Conservation Service Soil Survey. Citation: Fond du Lac County
- ☐ National wetlands inventory map(s). Cite name:
- ☐ State/Local wetland inventory map(s):
- ☐ FEMA/FIRM maps:
- ☐ 100-year Floodplain Elevation is:
- ☒ Photographs: ☒ Aerial (Name & Date): NAIP 2005 and 2006
 - ☐ Other (Name & Date):
- ☐ Previous determination(s). File no. and date of response letter:
- ☒ Other information (please specify): DNR Rivers and Streams Data

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.


Signature and Date of Regulatory Project Manager
(REQUIRED) 3/26/2009

Signature and Date of Person Requesting Preliminary JD
(REQUIRED, unless obtaining the signature is impracticable)

EXPLANATION OF PRELIMINARY AND APPROVED JURISDICTIONAL DETERMINATIONS:

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "preconstruction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable.

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: Fond du Lac County (Sam Tobias)		File Number: 2008-03220-TMV	Date: 3/26/09
Attached is:			See Section below
	INITIAL PROFFERED PERMIT (Standard Permit or Letter of Permission)	A	
	PROFFERED PERMIT (Standard Permit or Letter of Permission)	B	
	PERMIT DENIAL	C	
	APPROVED JURISDICTIONAL DETERMINATION	D	
X	PRELIMINARY JURISDICTIONAL DETERMINATION	E	

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://usace.army.mil/inet/functions/cw/cecwo/reg> or Corps regulations at 33 CFR Part 331.

A. INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approve jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B. PROFFERED PERMIT: You may accept or appeal the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C. PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D. APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

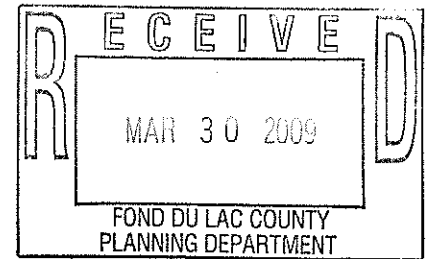
- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E. PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
ST. PAUL DISTRICT, CORPS OF ENGINEERS
SIBLEY SQUARE AT MEARS PARK
190 FIFTH STREET EAST, SUITE 401
ST. PAUL MN 55101-1638



March 26, 2009

Operations
Regulatory (2008-04355-TMV)

Mr. Sam Tobias
Fond du Lac County
160 S. Macy Street
Fond du Lac, Wisconsin 54935

Dear Mr. Tobias:

This is in response to the request for Corps concurrence with the wetland delineation completed by MSA on the 20.7-acre Eilert Parcel in the Fond du Lac County Airport Industrial Park. The project site is located in the NW $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 17, T. 15N., R. 17E., Fond du Lac County, Wisconsin.

We have reviewed the wetland delineation report dated August 15, 2008, and concur that the wetland boundaries on the property have been established in accordance with the *Corps of Engineers Wetland Delineation Manual* (1987 Manual) and are adequate to establish the limits of Corps of Engineers Clean Water Act jurisdiction. This wetland delineation shall remain valid for a period of five years from the date of this letter, unless new information warrants revision of the delineation before the expiration date.

It is recommended that the delineated wetland boundaries be surveyed and identified on any development plans or sale agreements prepared for this property.

Pursuant to Section 404 of the Clean Water Act, the Corps of Engineers has regulatory jurisdiction over the discharge of dredged and fill materials, including discharges associated with mechanical land clearing, in all waters of the United States, which includes most wetlands.

Please note that work performed below the ordinary high water mark in waters of the United States, or the discharge of dredged or fill material into wetlands, without a Department of the Army permit could result in enforcement action. Receipt of a permit from a state or local agency does not obviate the requirement for obtaining a Department of the Army permit.

As agreed, a preliminary jurisdictional determination (JD) has been prepared for this site. The preliminary JD is not appealable. At any time, you may request an approved JD (which may be appealed), by contacting the Corps representative identified in the final paragraph of this letter. You may also provide new information for further consideration by the Corps to reevaluate the JD. If this JD is acceptable please sign and date both copies of the Preliminary Jurisdictional Determination Form and return one copy to the address below.

U.S. Army Corps of Engineers
Attn: Todd Vesperman
211 N. Broadway, Suite 216
Green Bay, Wisconsin 54303

This delineation/determination has been conducted to identify the limits of the Corps Clean Water Act jurisdiction for the particular site identified in this request. This delineation/determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985, as amended. If you or your tenant are USDA program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service prior to starting work.

Thank you for your cooperation with the U.S. Army Corps of Engineers regulatory program. If you have any questions, contact Todd Vesperman in our Green Bay Field Office at (920) 448-2824. In any correspondence or inquiries, please refer to the Regulatory number shown above.

Sincerely,



for Tamara E. Cameron
Chief, Regulatory Branch

Copy furnished:
Crystal Schiefelbein – WDNR
Ann Dansart – MSA

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

District Office	St. Paul District	File/ORM #	2009-04355-TMV	PJD Date:	Mar 26, 2009
State	WI	City/County	Fond du Lac/Fond du Lac County	Name/ Address of Person Requesting PJD	Mr. Sam Tobias Fond du Lac County 160 S. Macy Street Fond du Lac, WI 54935
Nearest Waterbody:	Unnamed Tributary				
Location: TRS, Lat/Long or UTM:	NWNE Sec. 17, Township 15N, Range 17E.				
Identify (Estimate) Amount of Waters in the Review Area:			Name of Any Water Bodies on the Site Identified as Section 10 Waters:		
Non-Wetland Waters:			Tidal:		
linear ft width acres			Non-Tidal:		
Stream Flow:					
Wetlands: 1.9 acre(s) Cowardin Class: Palustrine, emergent			<input checked="" type="checkbox"/> Office (Desk) Determination <input checked="" type="checkbox"/> Field Determination: Date of Field Trip: Oct 22, 2008		

SUPPORTING DATA: Data reviewed for preliminary JD (check all that apply - checked items should be included in case file and, where checked and requested, appropriately reference sources below):

- ☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Report by MSA
- ☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
 - ☒ Office concurs with data sheets/delineation report.
 - ☐ Office does not concur with data sheets/delineation report.
- ☐ Data sheets prepared by the Corps
- ☐ Corps navigable waters' study:
- ☒ U.S. Geological Survey Hydrologic Atlas:
 - ☒ USGS NHD data.
 - ☐ USGS 8 and 12 digit HUC maps.
- ☐ U.S. Geological Survey map(s). Cite quad name:
- ☒ USDA Natural Resources Conservation Service Soil Survey. Citation: Fond du Lac County
- ☐ National wetlands inventory map(s). Cite name:
- ☐ State/Local wetland inventory map(s):
- ☐ FEMA/FIRM maps:
- ☐ 100-year Floodplain Elevation is:
- ☒ Photographs: ☒ Aerial (Name & Date): NAIP 2005
 - ☐ Other (Name & Date):
- ☐ Previous determination(s). File no. and date of response letter:
- ☒ Other information (please specify): WDNR Rivers and Streams Data

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Todd Vesper 3/26/2009
Signature and Date of Regulatory Project Manager
(REQUIRED)

Signature and Date of Person Requesting Preliminary JD
(REQUIRED, unless obtaining the signature is impracticable)

EXPLANATION OF PRELIMINARY AND APPROVED JURISDICTIONAL DETERMINATIONS:

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "preconstruction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable.

PRELIMINARY JURISDICTIONAL DETERMINATION FORM


This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

District Office	St. Paul District	File/ORM #	2009-04355-TMV	PJD Date:	Mar 26, 2009
State	WI	City/County	Fond du Lac/Fond du Lac County	Name/ Address of Person Requesting PJD	Mr. Sam Tobias Fond du Lac County 160 S. Macy Street Fond du Lac, WI 54935
Nearest Waterbody:	Unnamed Tributary				
Location: TRS, Lat/Long or UTM:	NWNE Sec. 17, Township 15N, Range 17E.				
Identify (Estimate) Amount of Waters in the Review Area:				Name of Any Water Bodies Tidal: _____	
Non-Wetland Waters: _____ Stream Flow: _____				on the Site Identified as _____	
_____ linear ft _____ width _____ acres _____				Section 10 Waters: Non-Tidal: _____	
Wetlands: 1.9 acre(s) Cowardin Class: Palustrine, emergent				_____	
				<input checked="" type="checkbox"/> Office (Desk) Determination	
				<input checked="" type="checkbox"/> Field Determination: Date of Field Trip: Oct 22, 2008	

SUPPORTING DATA: Data reviewed for preliminary JD (check all that apply - checked items should be included in case file and, where checked and requested, appropriately reference sources below):

- ☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Report by MSA
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 - ☐ Office does not concur with data sheets/delineation report.
- ☐ Data sheets prepared by the Corps
- ☐ Corps navigable waters' study: _____
- ☒ U.S. Geological Survey Hydrologic Atlas:
 - ☒ USGS NHD data.
 - ☐ USGS 8 and 12 digit HUC maps.
- ☐ U.S. Geological Survey map(s). Cite quad name: _____
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- ☐ National wetlands inventory map(s). Cite name: _____
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- ☐ 100-year Floodplain Elevation is: _____
- ☒ Photographs: ☒ Aerial (Name & Date): NAIP 2005
- ☐ Other (Name & Date): _____
- ☐ Previous determination(s). File no. and date of response letter: _____
- ☒ Other information (please specify): WDNR Rivers and Streams Data

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.


Signature and Date of Regulatory Project Manager
(REQUIRED) 3/26/2009

Signature and Date of Person Requesting Preliminary JD
(REQUIRED, unless obtaining the signature is impracticable)

EXPLANATION OF PRELIMINARY AND APPROVED JURISDICTIONAL DETERMINATIONS:

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

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NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: Fond du Lac County (Sam Tobias)	File Number: 2008-04355-TMV	Date: 3/26/09
Attached is:		See Section below
<input type="checkbox"/>	INITIAL PROFFERED PERMIT (Standard Permit or Letter of Permission)	A
<input type="checkbox"/>	PROFFERED PERMIT (Standard Permit or Letter of Permission)	B
<input type="checkbox"/>	PERMIT DENIAL	C
<input type="checkbox"/>	APPROVED JURISDICTIONAL DETERMINATION	D
<input checked="" type="checkbox"/>	PRELIMINARY JURISDICTIONAL DETERMINATION	E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://usace.army.mil/inet/functions/cw/cecwo/reg> or Corps regulations at 33 CFR Part 331.

A. INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approve jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

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- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C. PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D. APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E. PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.