

RED LAKE SUPPORTIVE HOUSING 2



REVISIONS			
NO.	DATE	DESCRIPTION	BY

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Michael C. McFarlane
MICHAEL C. MCFARLANE LIC. NO. 44196



NORTHERN ENGINEERING & CONSULTING, INC.
2216 Tod Court NW, Bemidji, MN 56601
Phone: 218-444-4860, Fax: 218-444-6042
web: www.necusa.com

RED LAKE SUPPORTIVE HOUSING 2
OVERVIEW
RED LAKE RESERVATION, MINNESOTA

LITTLE ROCK LOTS 1 AND 2



NOT TO SCALE



RED LAKE SUPPORTIVE HOUSING 2

OVERVIEW - LITTLE ROCK

RED LAKE RESERVATION, MINNESOTA



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Michael C. McFarlane

MICHAEL C. MCFARLANE

LIC. NO. 44136

[illegible]

JOB NO. 23-009
DATE: 07/25/2023

SHEET NO.
2 OF 19

RED LAKE LOTS 1-6



NOT TO SCALE

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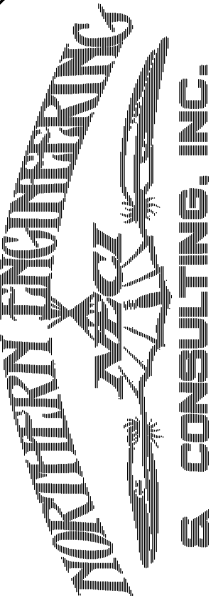
RED LAKE SUPPORTIVE HOUSING 2
OVERVIEW - RED LAKE
RED LAKE RESERVATION, MINNESOTA

PONEMAH LOTS 1 AND 2

[illegible]

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3 CONSULTING, INC.

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RED LAKE SUPPORTIVE HOUSING 2

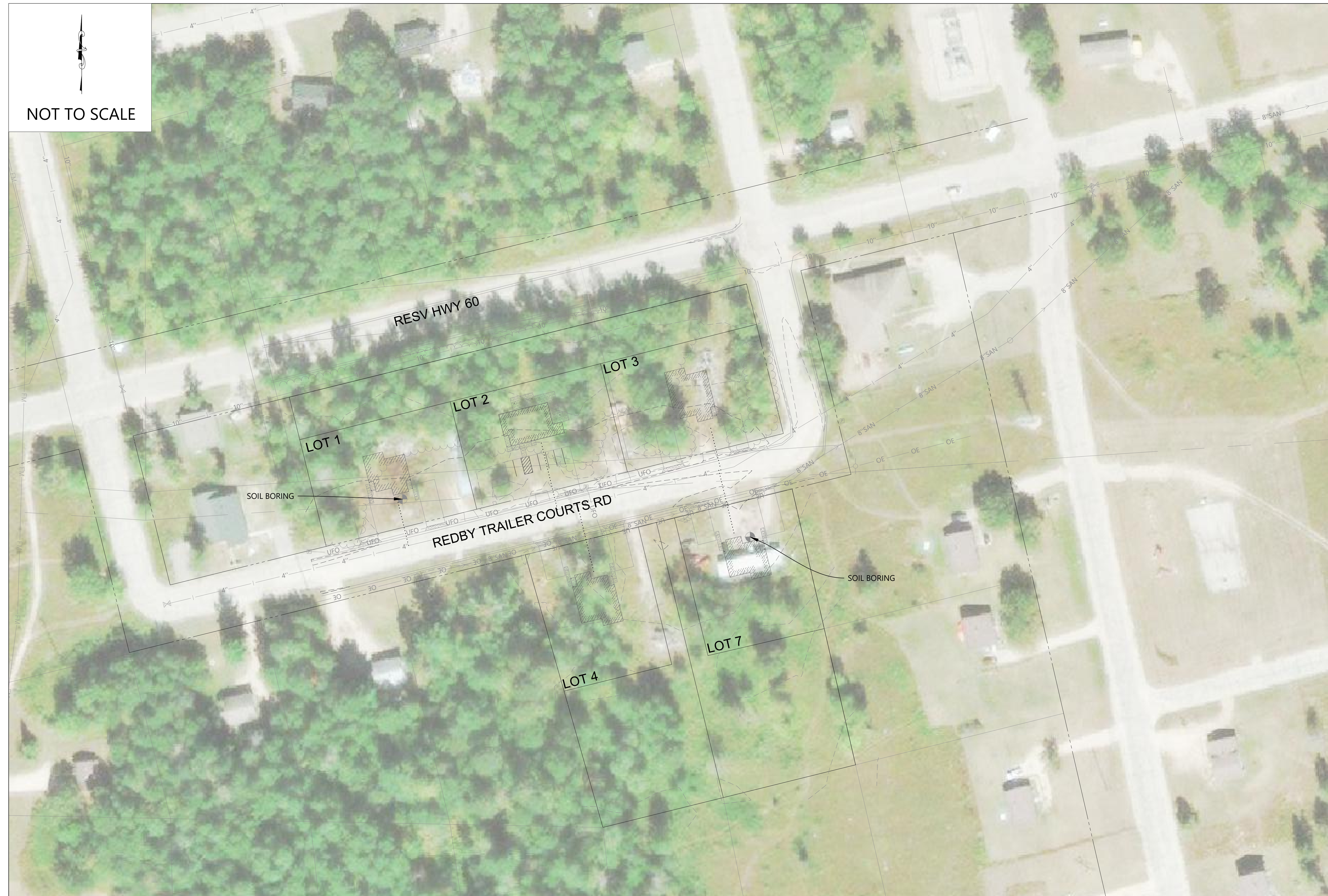
OVERVIEW - PONEMAH RED LAKE RESERVATION, MINNESOTA

JOB NO. 23-009
DATE: 07/25/2023

SHEET NO.

4 OF 19

REDBY LOTS 1-4 & 7



NOT TO SCALE

RED LAKE SUPPORTIVE HOUSING 2

OVERVIEW - REDBY

RED LAKE RESERVATION, MINNESOTA

JOB NO. 23-009
DATE: 07/25/2023

SHEET NO.
5 OF 19

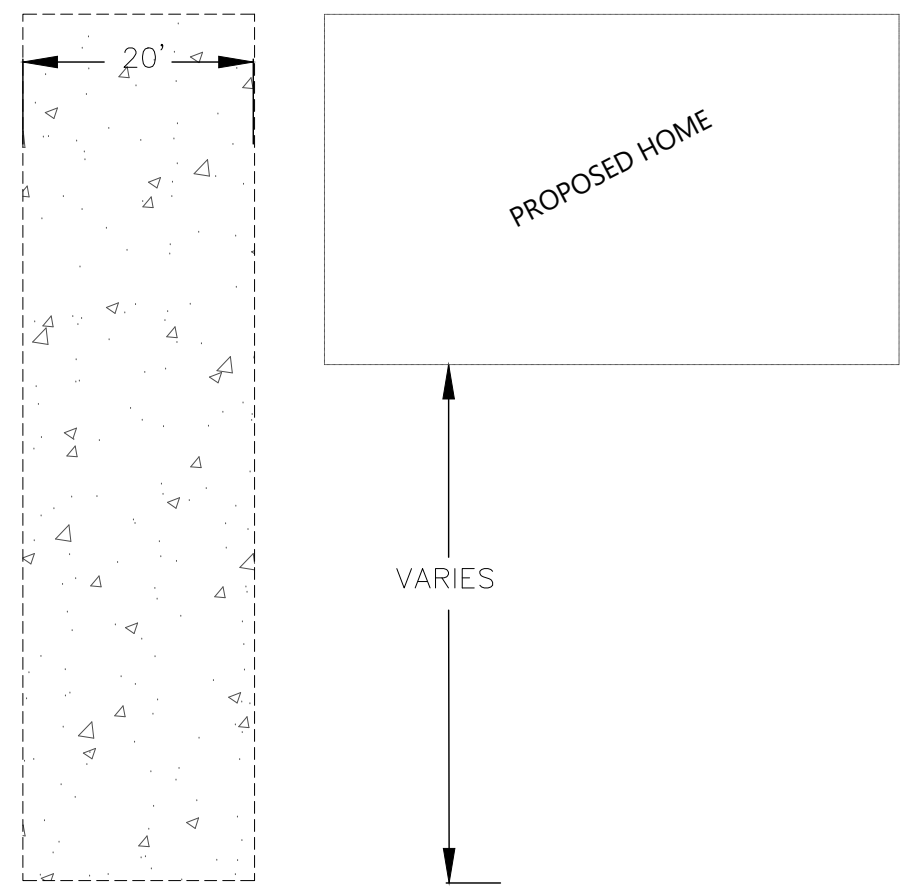
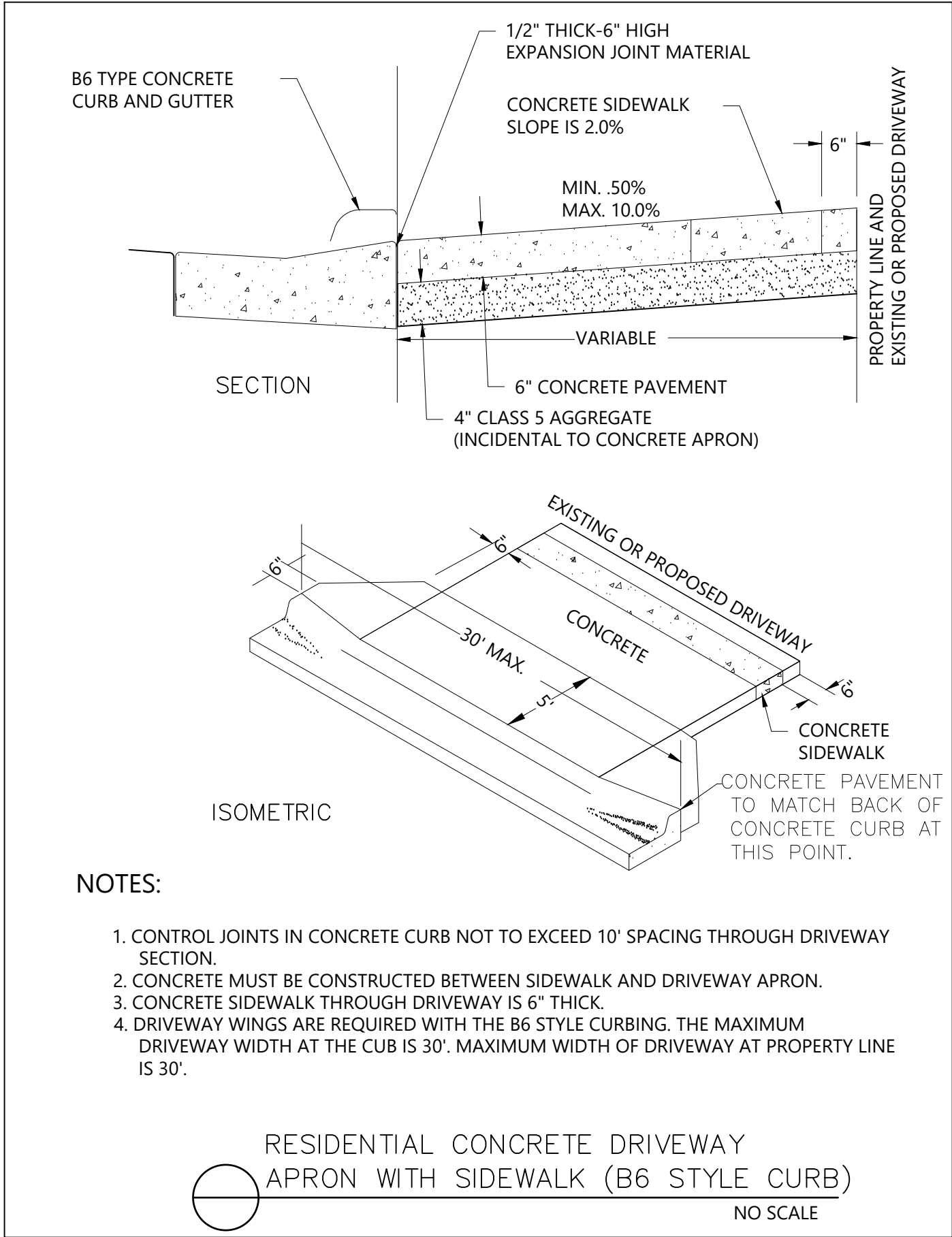
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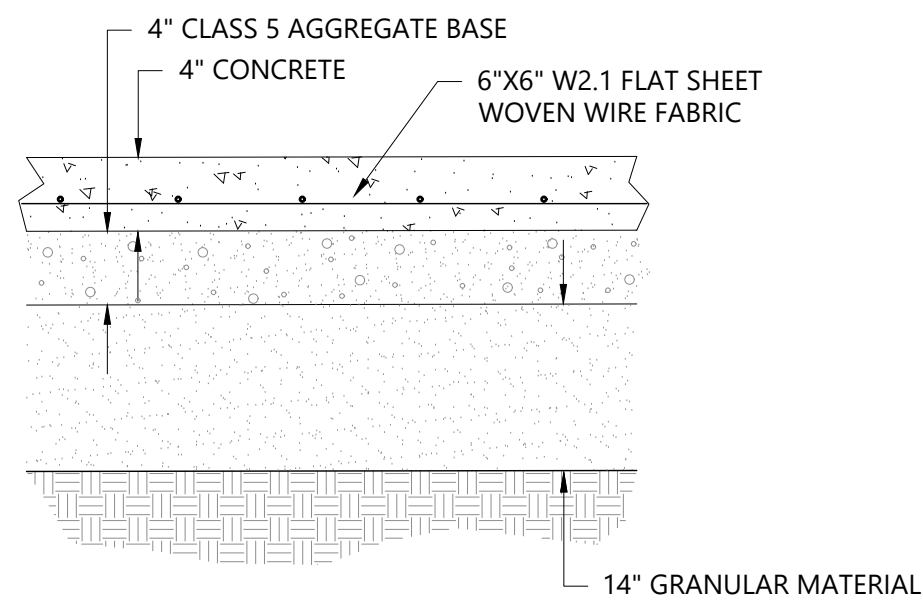
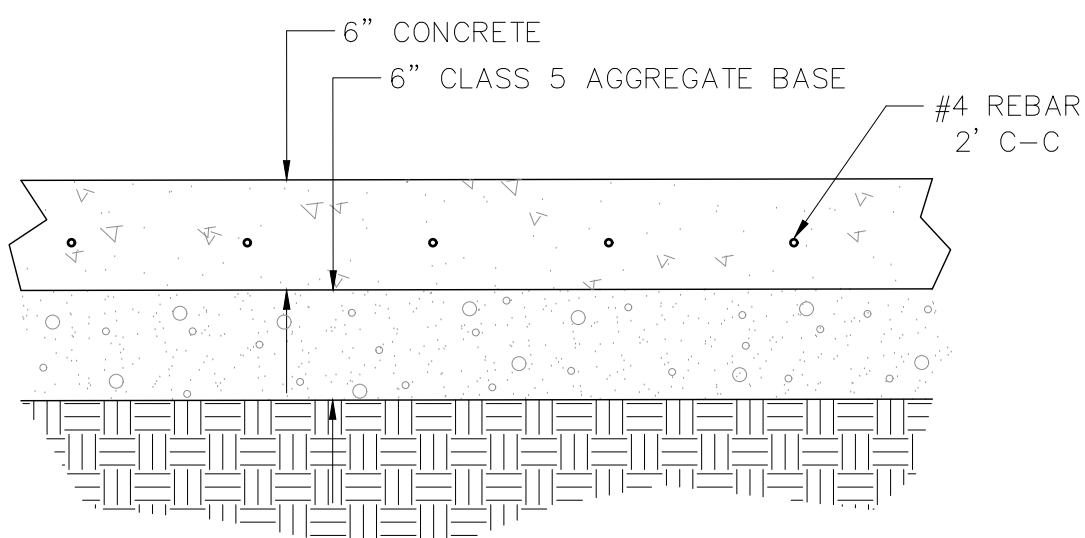
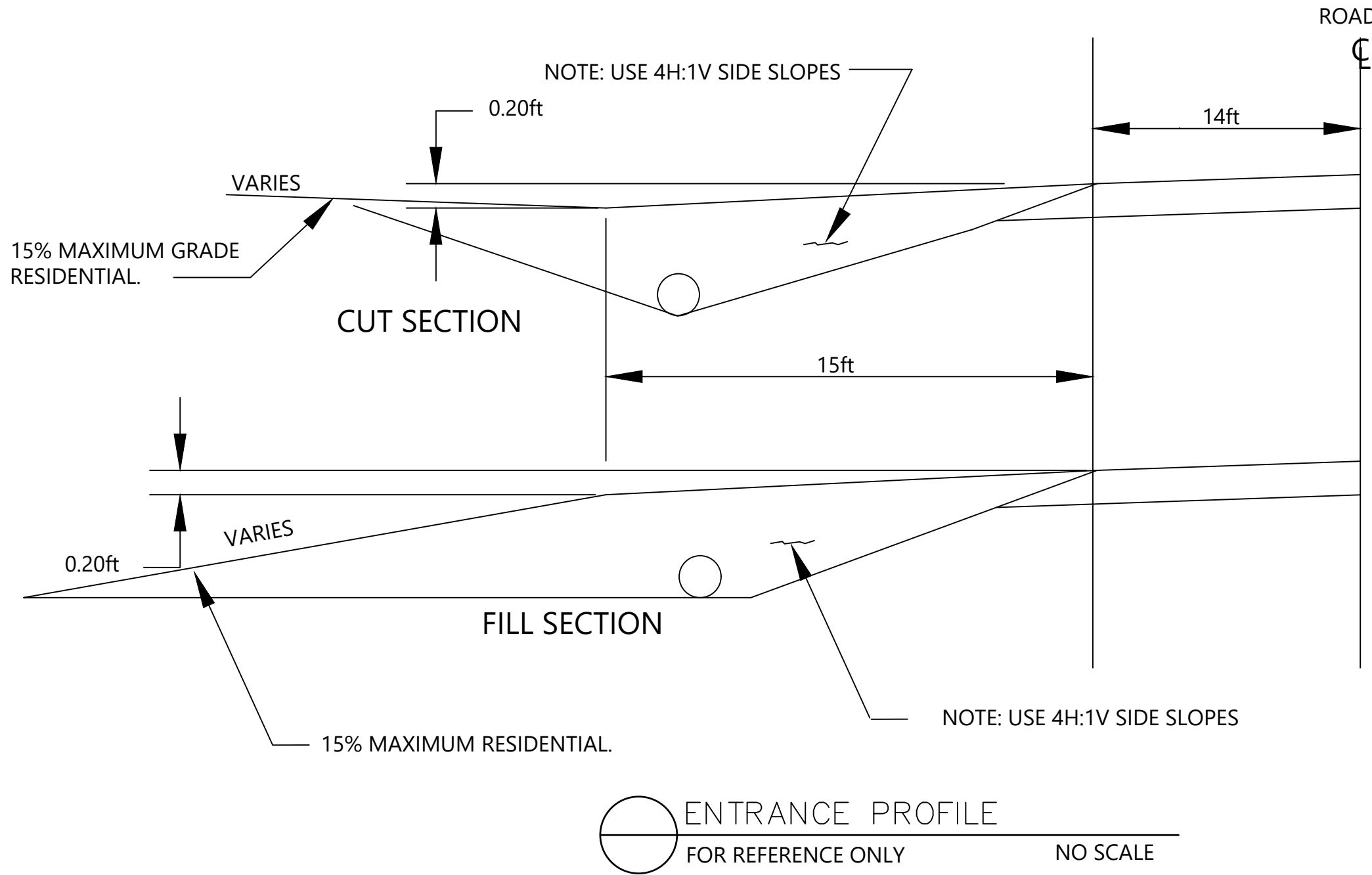
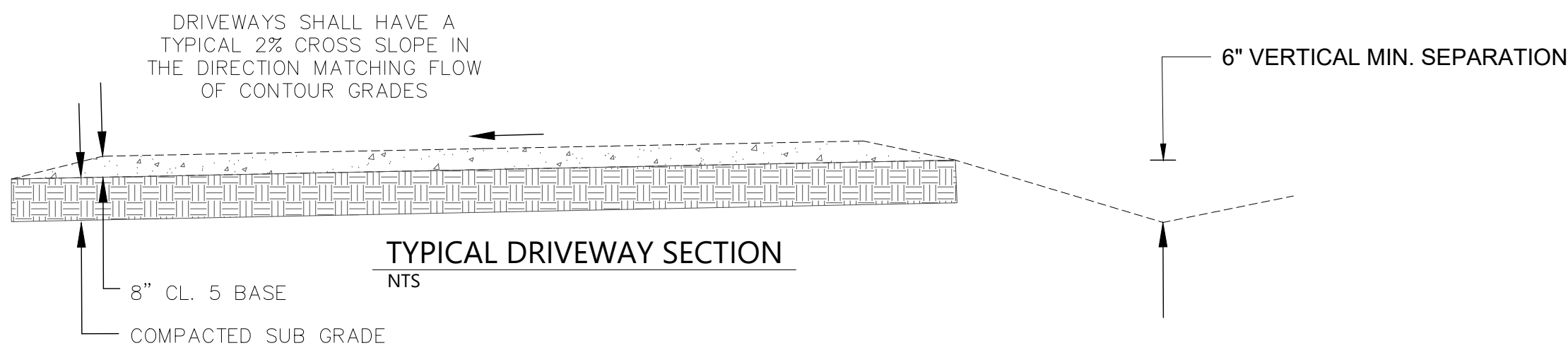
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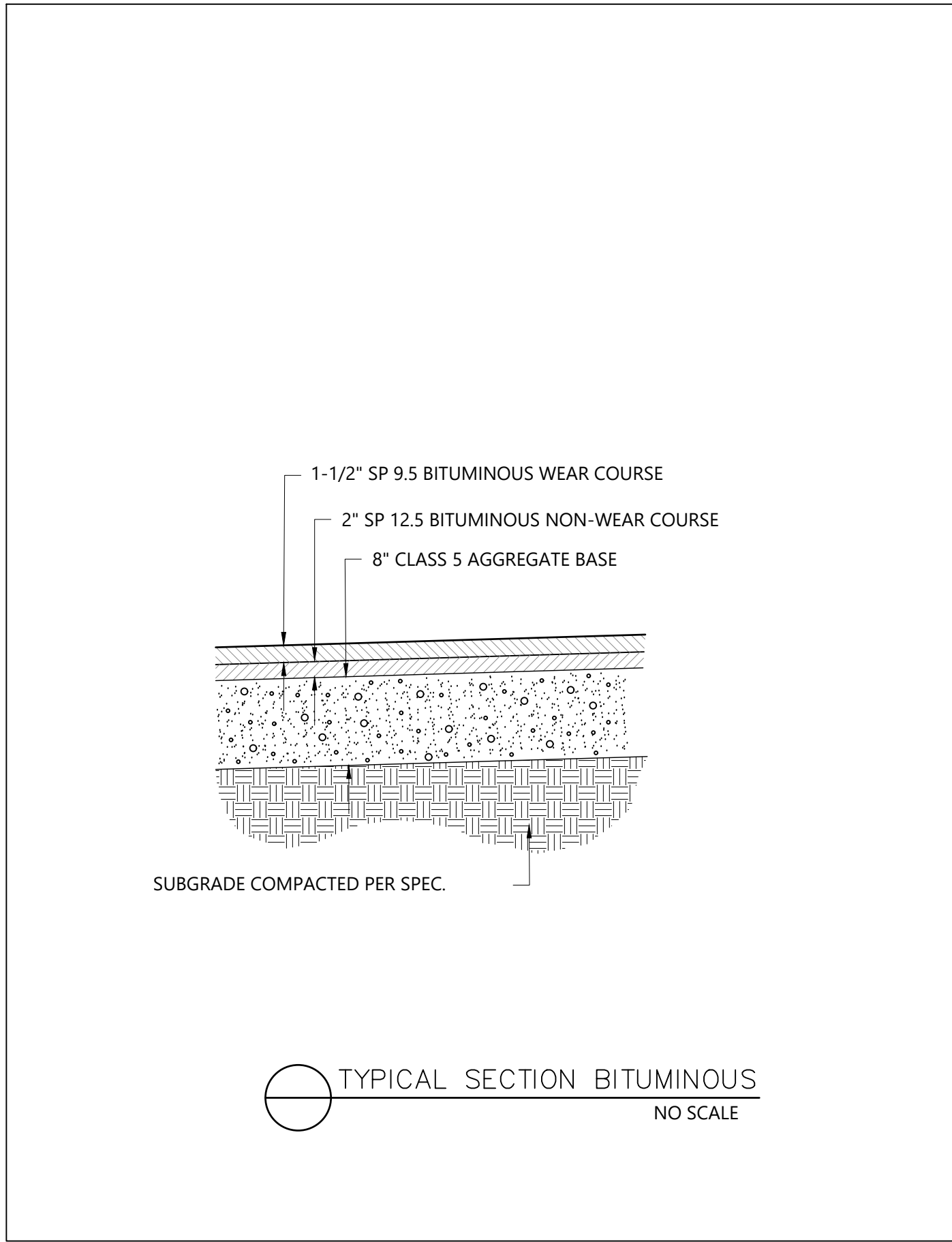
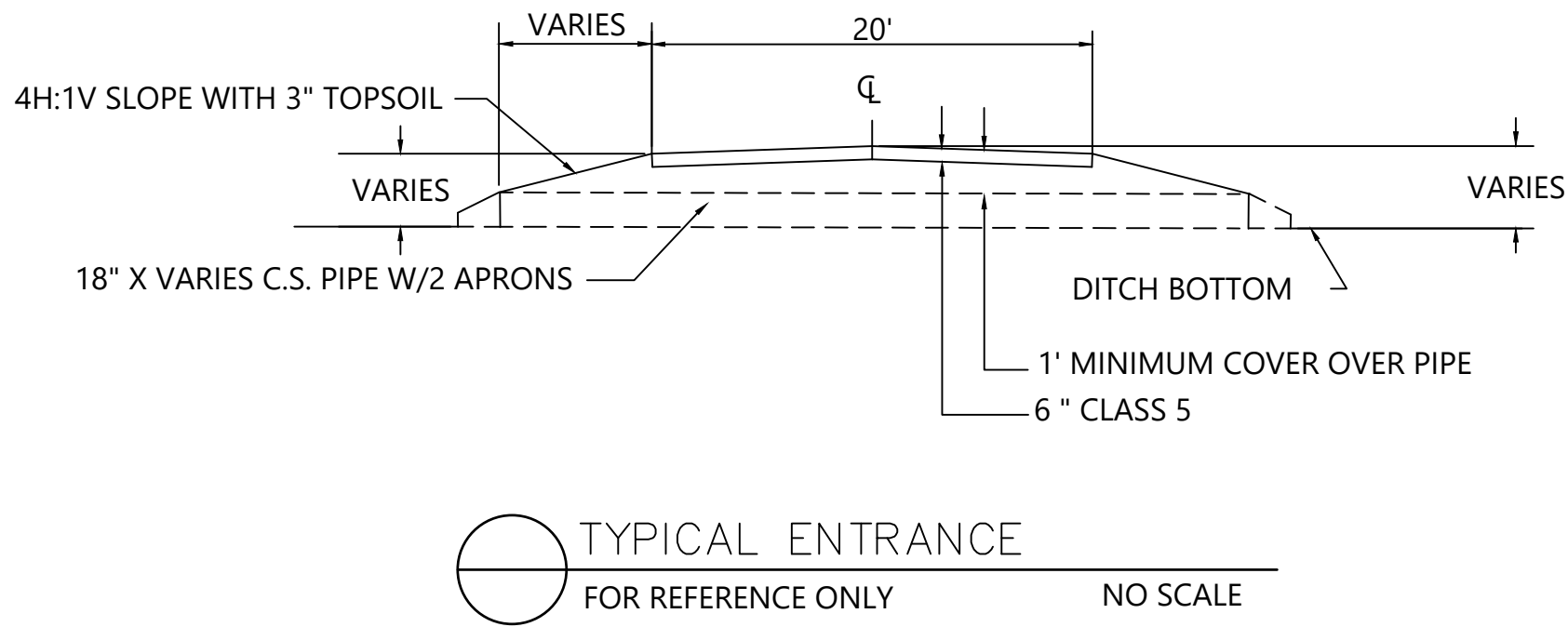
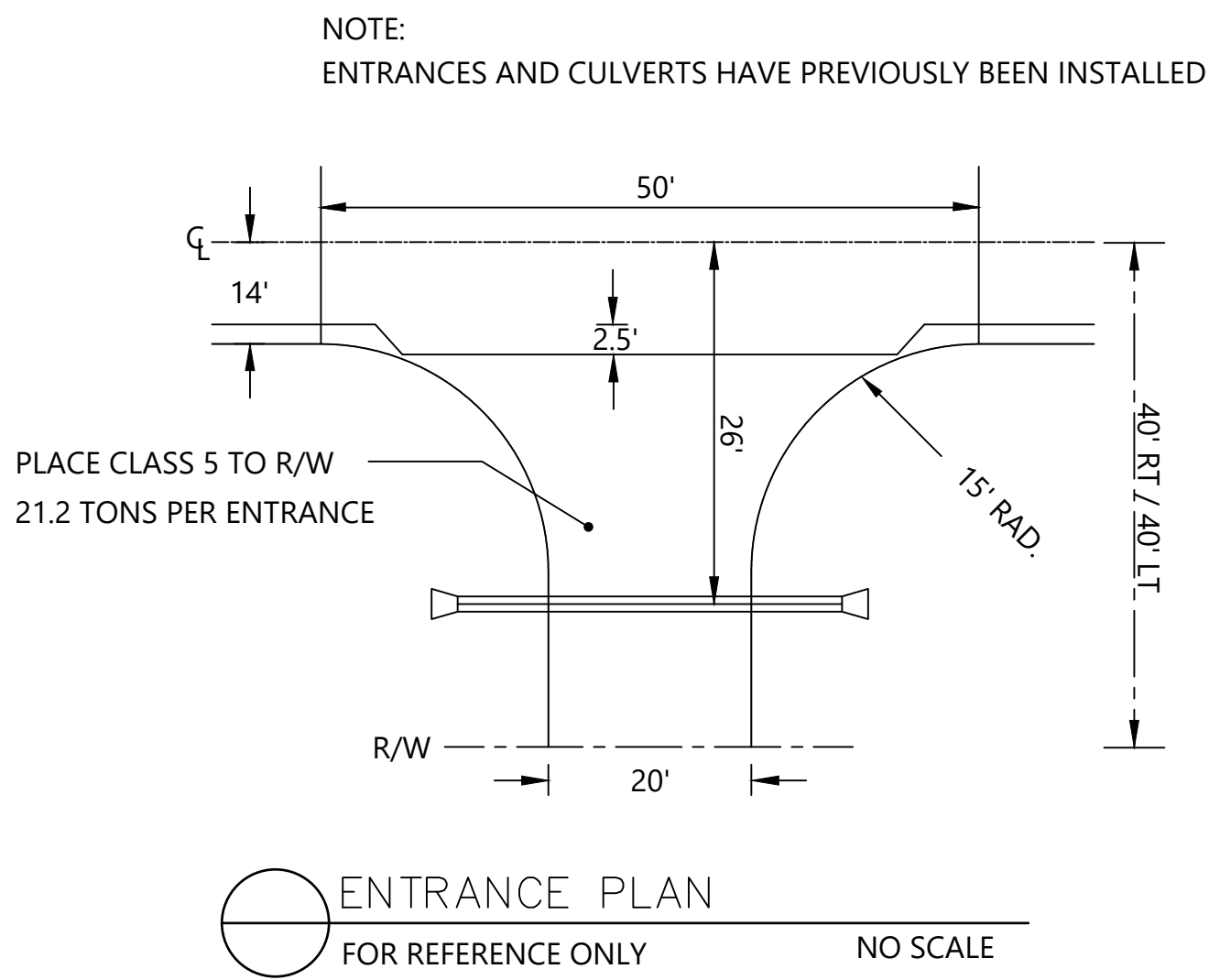
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LITTLE ROCK LOTS 1-4
DRIVEWAY LAYOUT



1. CONTRACTION JOINTS PER MNDOT SPEC. 2521
2. ALL SIDEWALKS 5.0' WIDE



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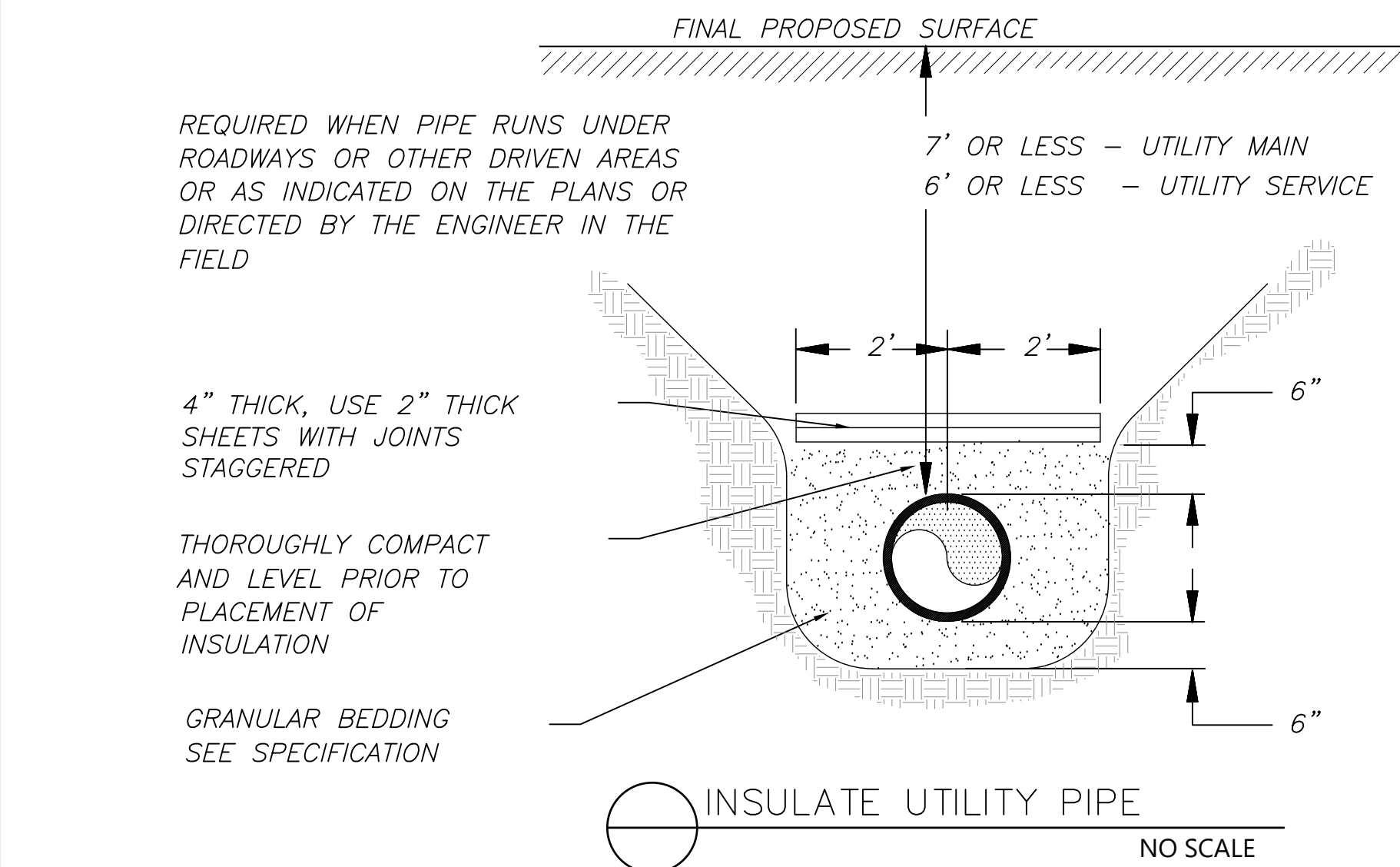
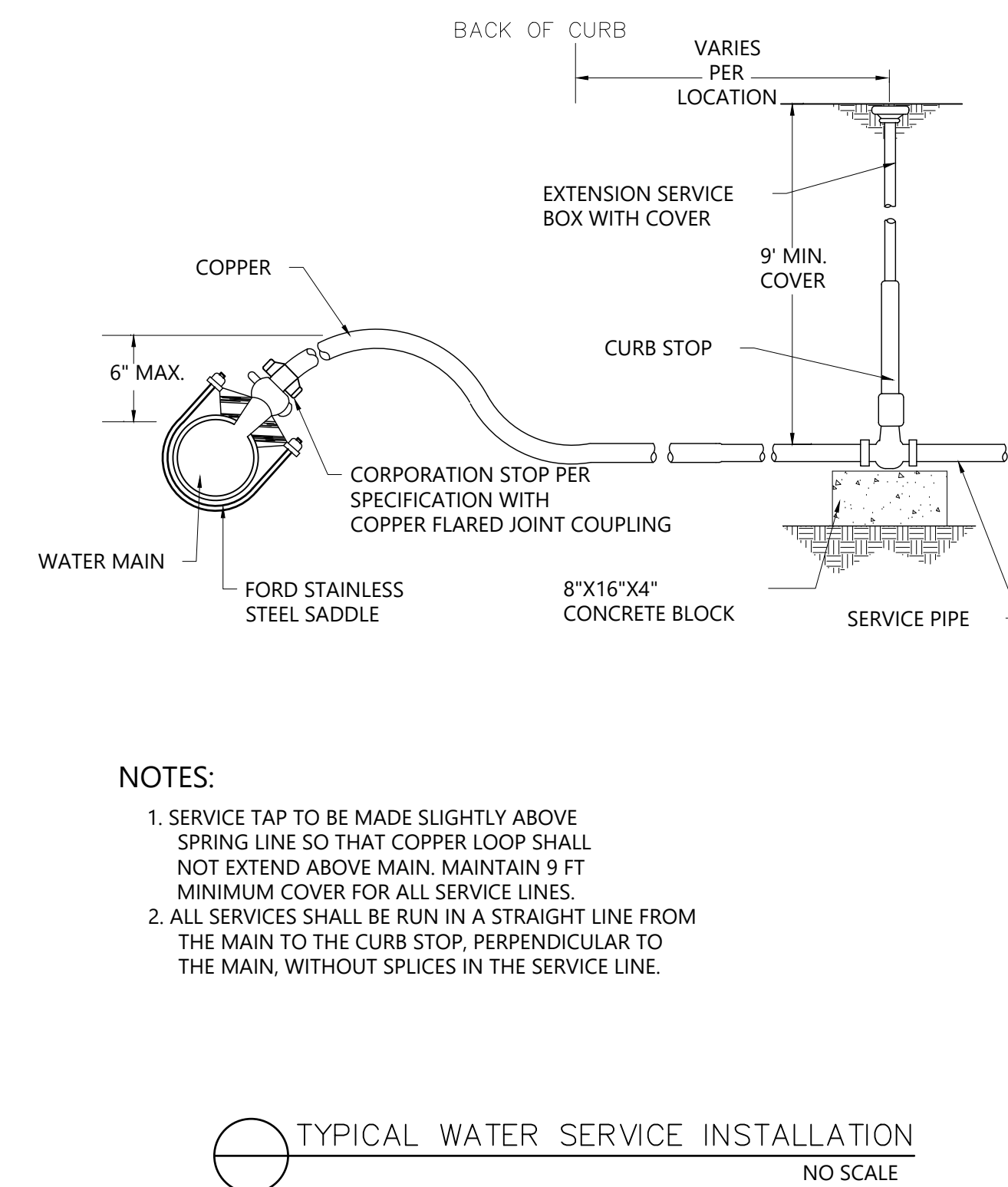
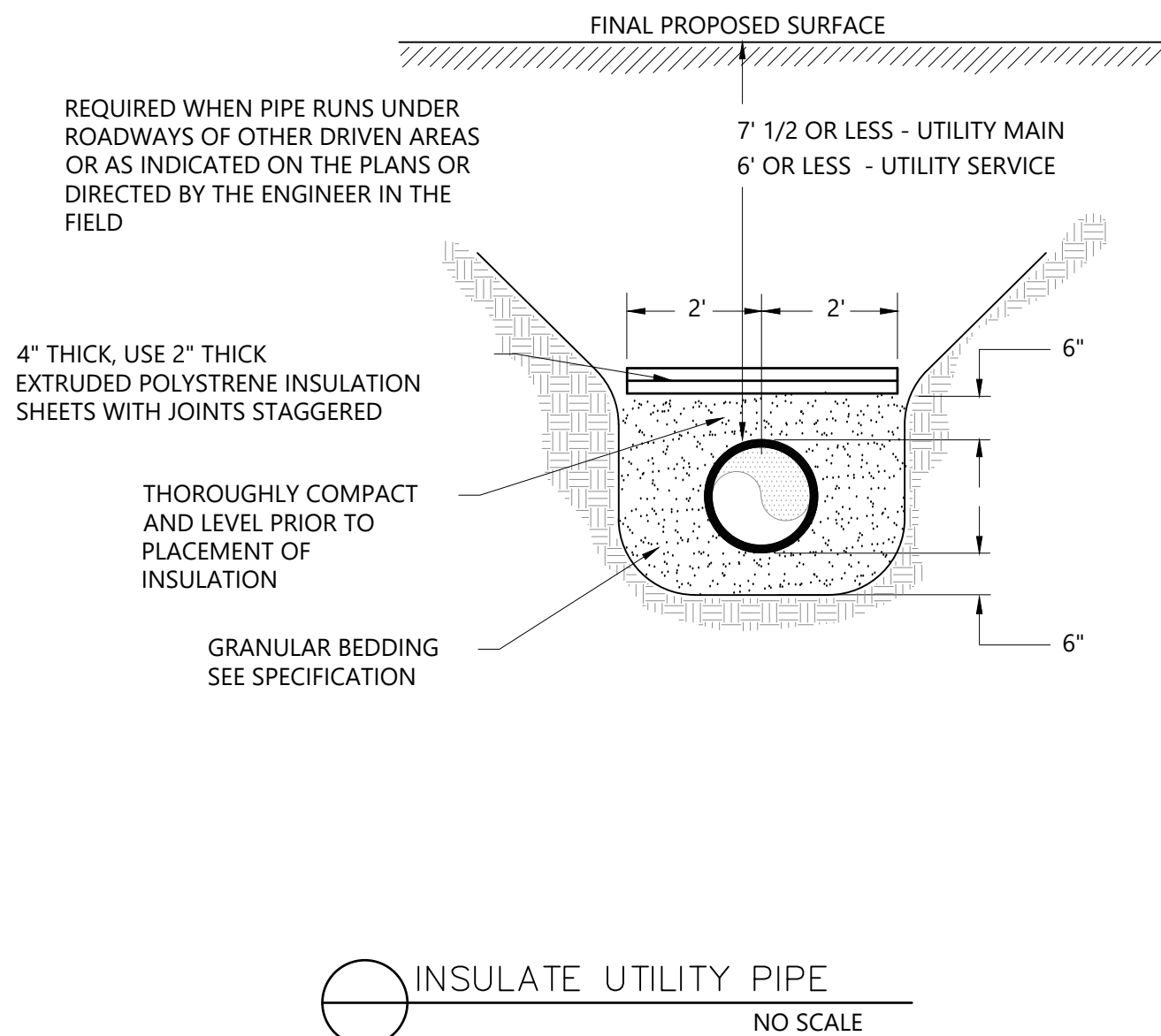
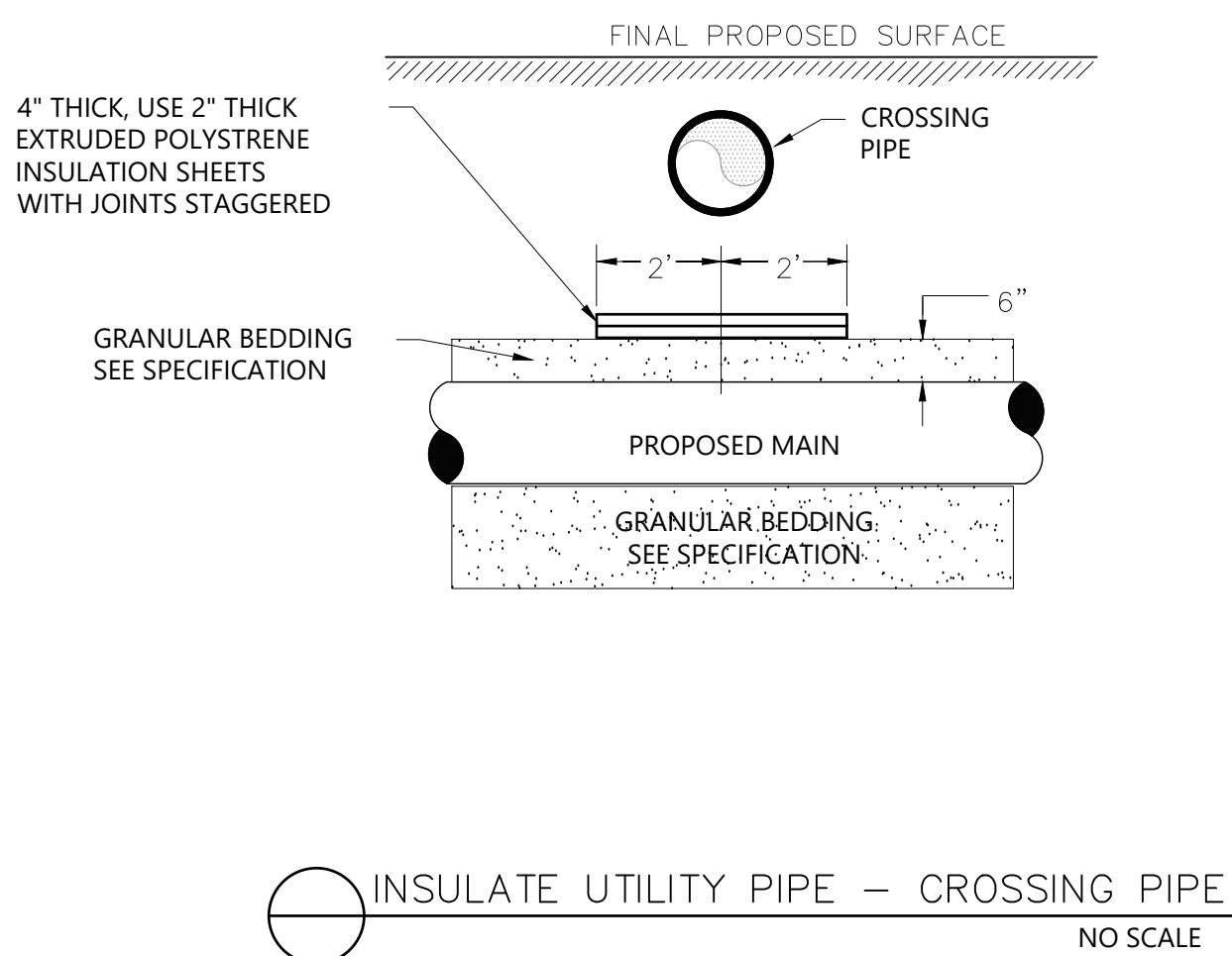
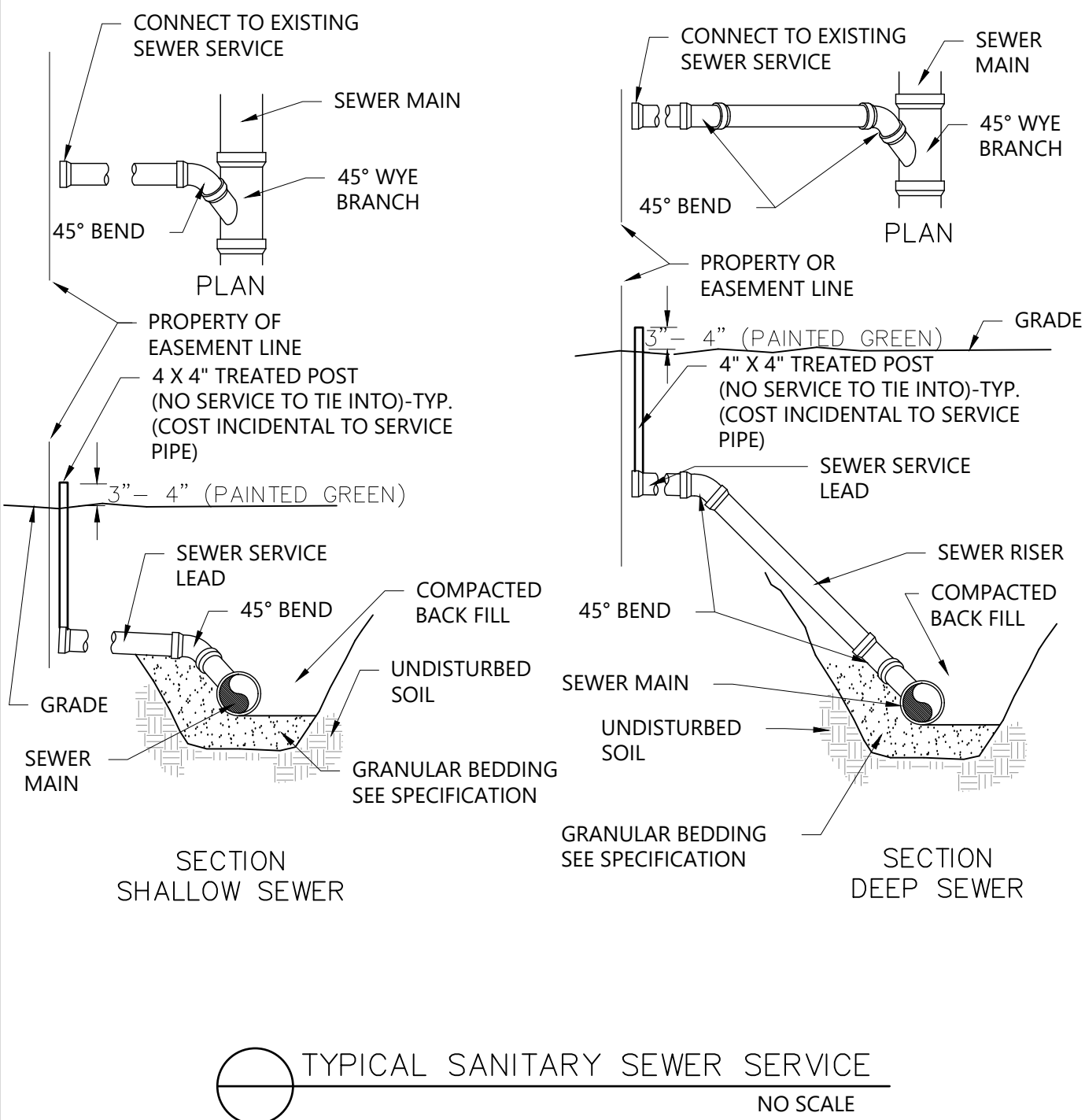
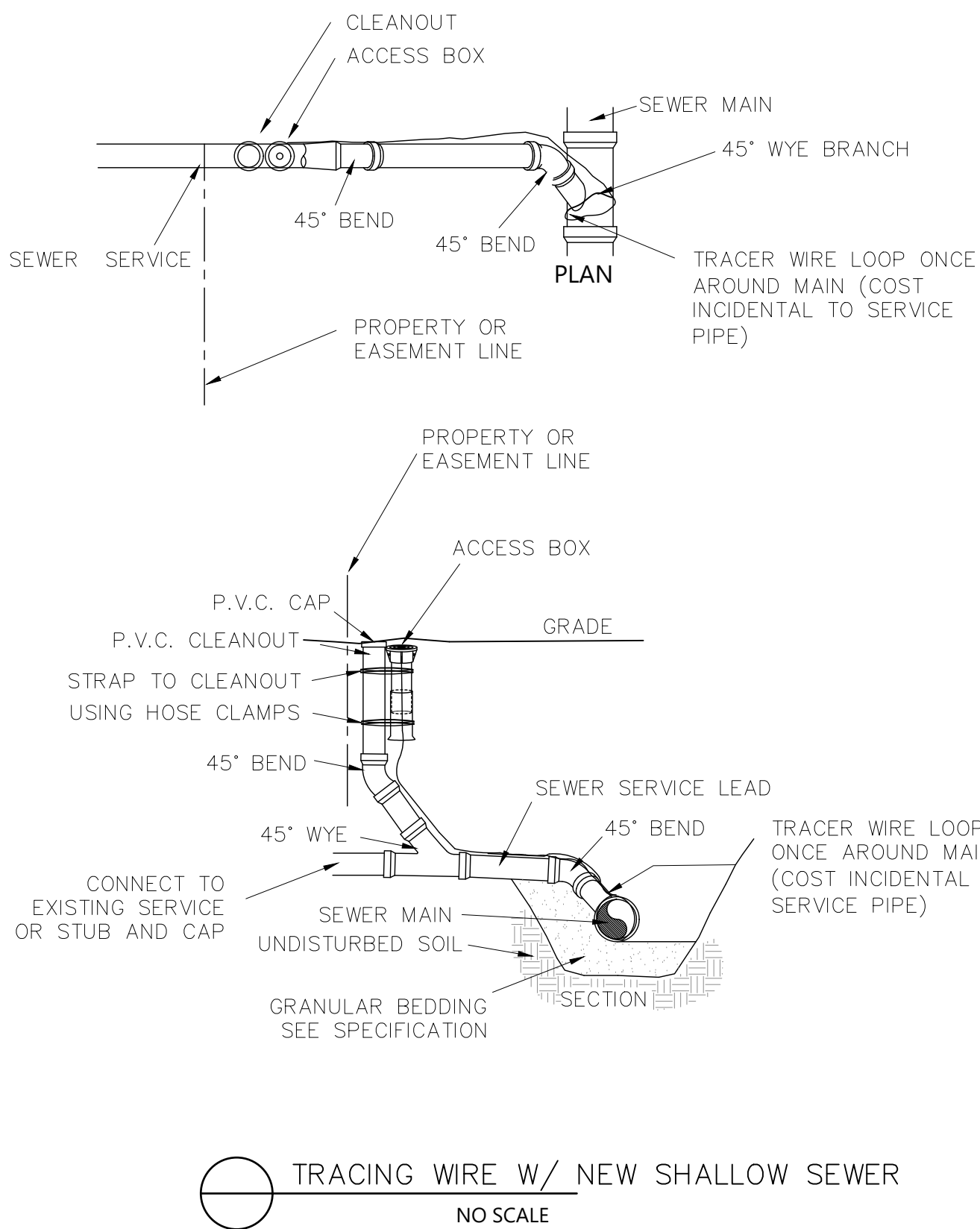
RED LAKE SUPPORTIVE HOUSING 2

DETAILS

RED LAKE RESERVATION, MINNESOTA

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DATE: 07/25/2023

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General Notes:

- Contractor shall be responsible for performing all their own quantities/takeoffs. No additional compensation will be made for variations from quantities shown on plans. Contractors shall make Engineer aware of any variations they deem significant in case clarification is needed during the bidding process.

Site Plan:

- Bituminous and/or Concrete Sidewalks shall be construction in accordance with MNDOT Specification "2521 WALKS" in the Standard Specifications for Construction, 2016 edition. Mix design for concrete walks shall be 3F52; Mix design for bituminous walks, if any, shall be SPWEB230B unless otherwise approved by Engineer.
- All areas not otherwise surfaced shall be seeded, hydro-mulched, and fertilized as follows and at application rates in accordance with MNDOT Specification "2575 ESTABLISHING TURF AND CONTROLLING EROSION" and "2574 SOIL PREPARATION" in the Standard Specifications for Construction, 2016 edition:
 - Seed Mix 25-131
 - Fertilizer, Type 1 Commercial

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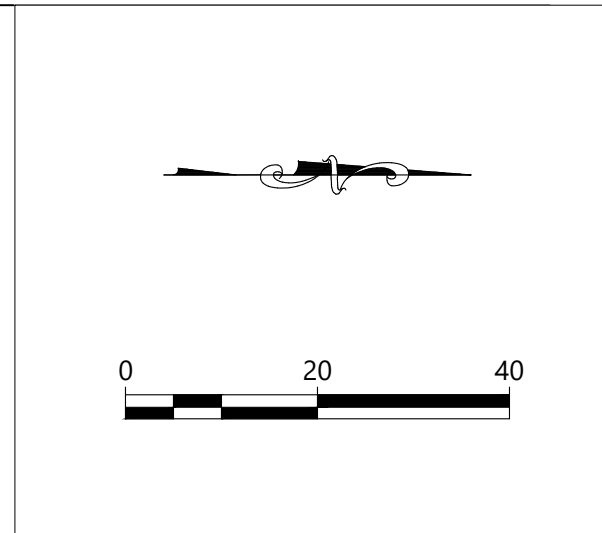
MICHAEL C. MCFARLANE
LIC NO. 44196



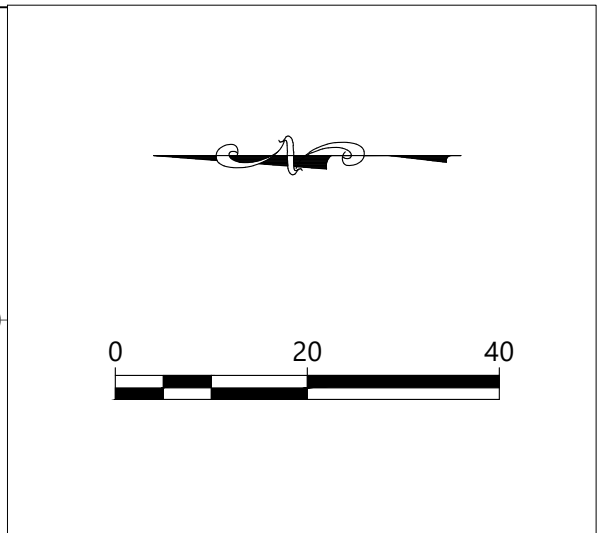
JOB NO. 23-009
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SHEET NO.
7 OF 19

14.4 C.Y. FILL
81.2 TONS CL 5 (DRIVEWAY)
267 S.F. 4" CONCRETE SIDEWALK/PATIO
0.51 ACRES CLEAR & GRUB



114.2 C.Y. FILL
76.87 TONS CL 5 (DRIVEWAY)
267 S.F. 4" CONCRETE SIDEWALK/PATIO
0.52 ACRE CLEAR & GRUB

[illegible]

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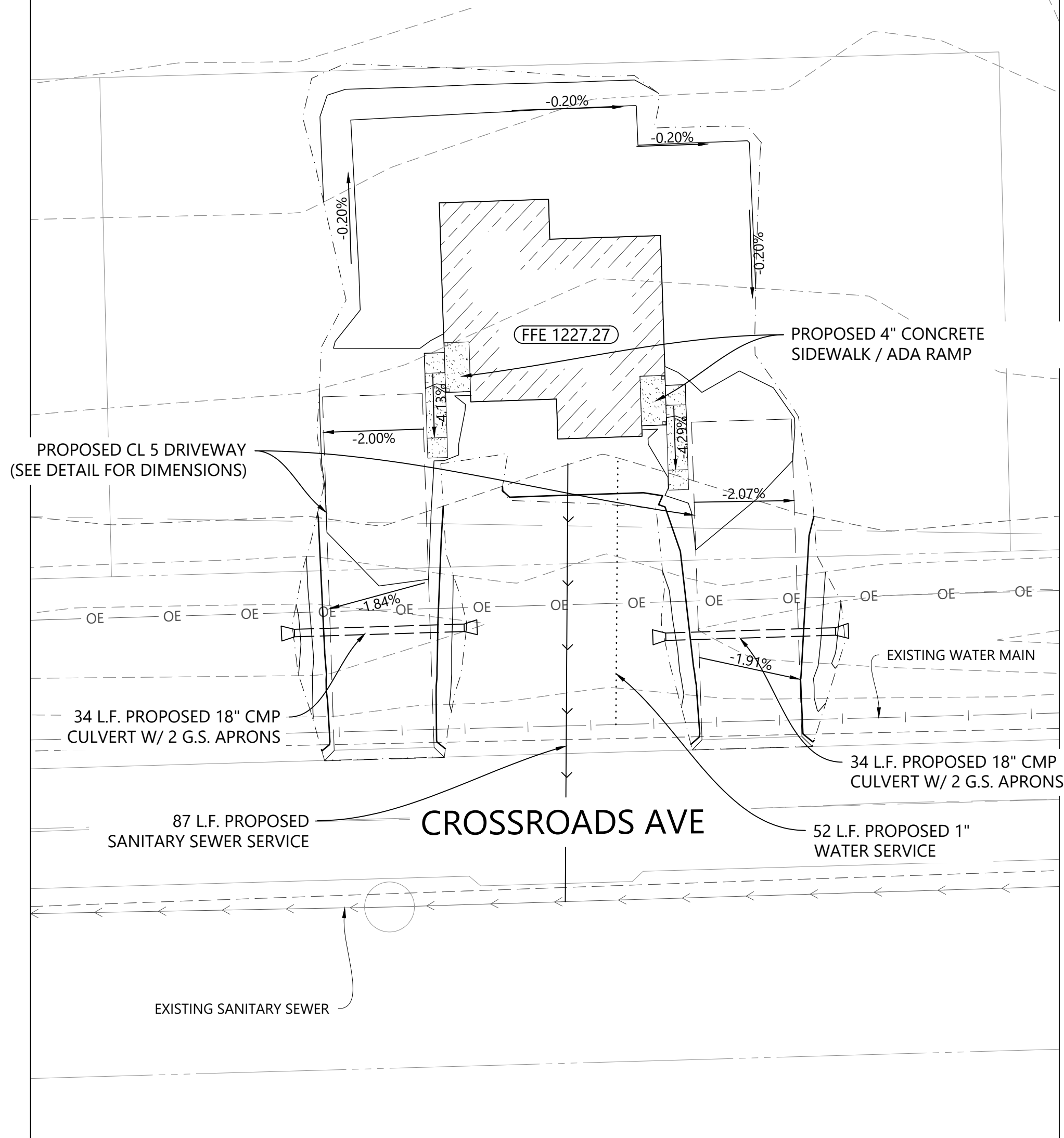


RED LAKE SUPPORTIVE HOUSING 2
LITTLE ROCK
LOTS 1 AND 2
RED LAKE RESERVATION, MINNESOTA

JOB NO. 23-009
DATE: 07/25/2023
SHEET NO.
9 OF 19

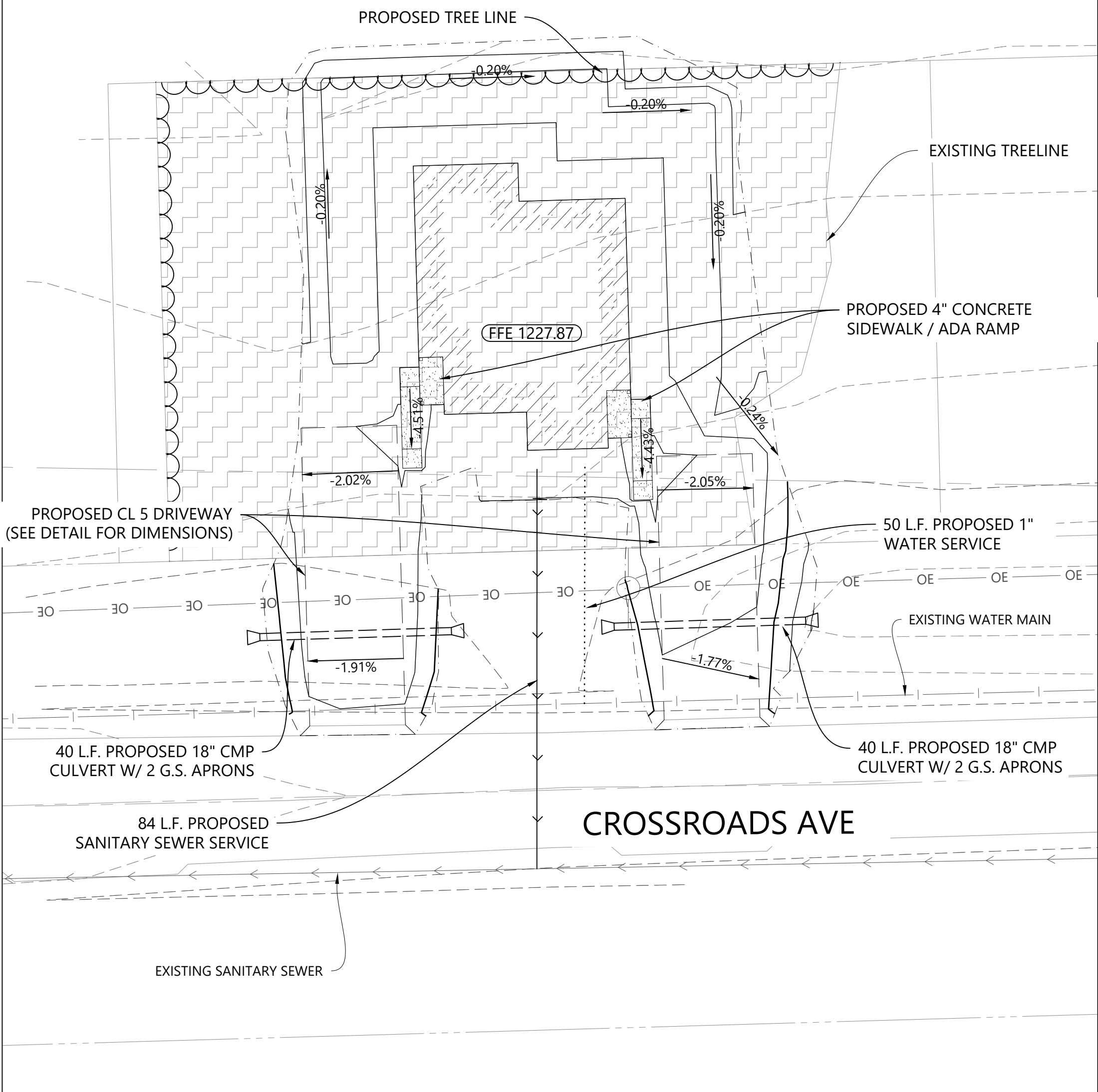
LOT 1
2 BEDROOM

56.5 C.Y. FILL
97.3 TONS CL 5 (DRIVEWAY)
267 S.F. 4" CONCRETE SIDEWALK/PATIO
0.00 ACRES CLEAR & GRUB



LOT 2
3 BEDROOM

78.2 C.Y. CUT
85.2 TONS CL 5 (DRIVEWAY)
267 S.F. 4" CONCRETE SIDEWALK/PATIO
0.31 ACRES CLEAR & GRUB



LEGEND

	PROPOSED TREE LINE		PROPOSED CONTOURS		PROPOSED 6" CONCRETE DRIVE APRON (93 S.F. TYPICAL) (REMOVE AND REPLACE EXISTING CURB AS NECESSARY)
	PROPOSED CLEAR & GRUB AREA		EXISTING CONTOURS		PROPOSED SANITARY SEWER LINE W/ TANK
	PROPOSED SANITARY SEWER SERVICE		PROPOSED FINISHED FLOOR ELEVATION		PROPOSED GRADE
	PROPOSED WATER SERVICE				

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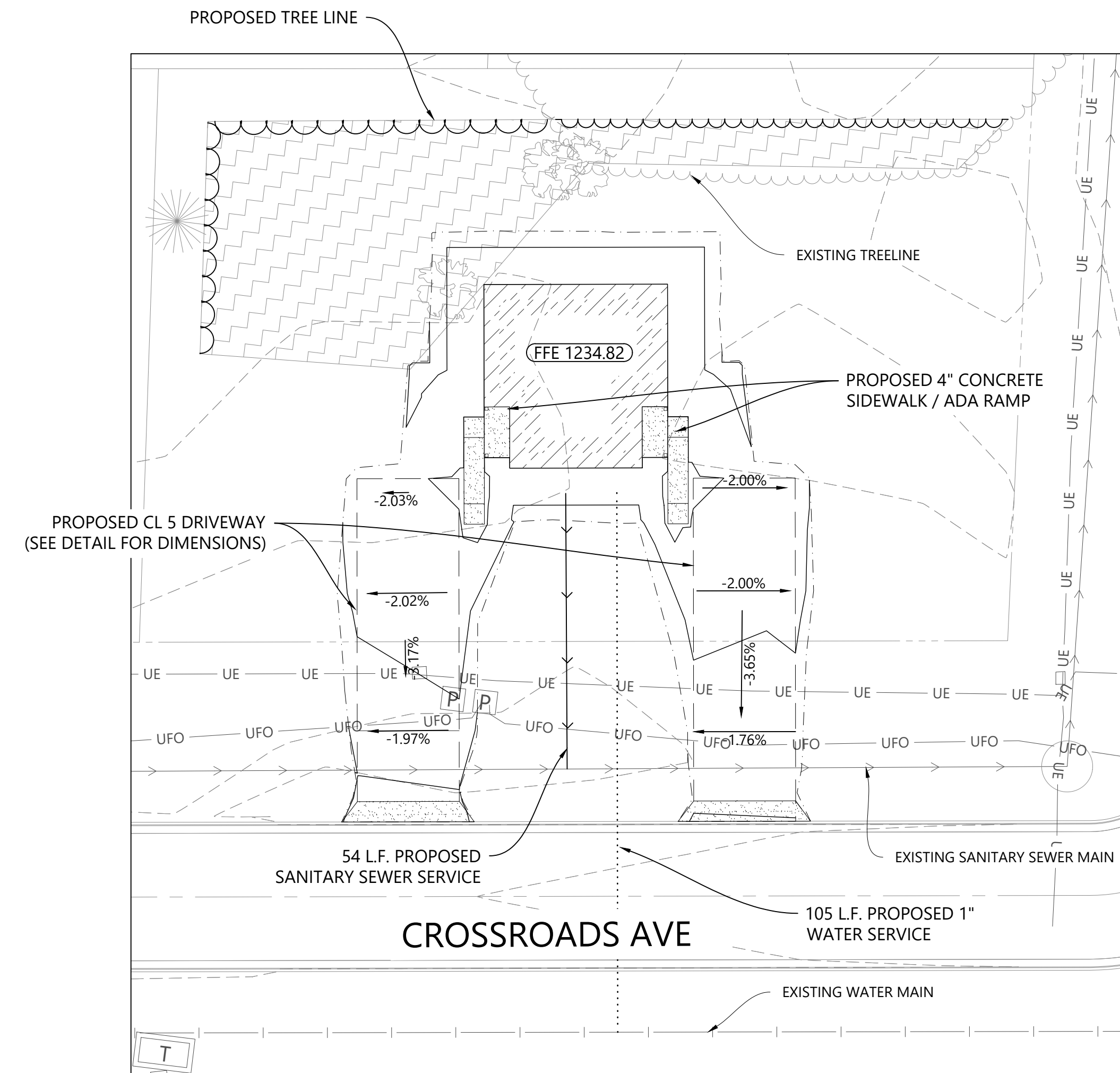
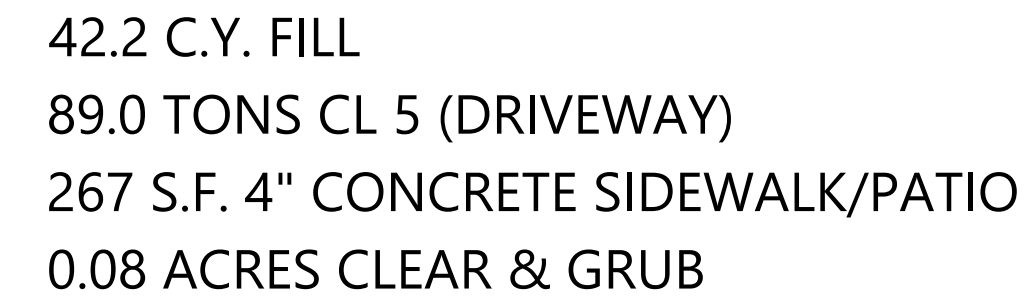


RED LAKE SUPPORTIVE HOUSING 2
RED LAKE
LOTS 1 AND 2
RED LAKE RESERVATION, MINNESOTA

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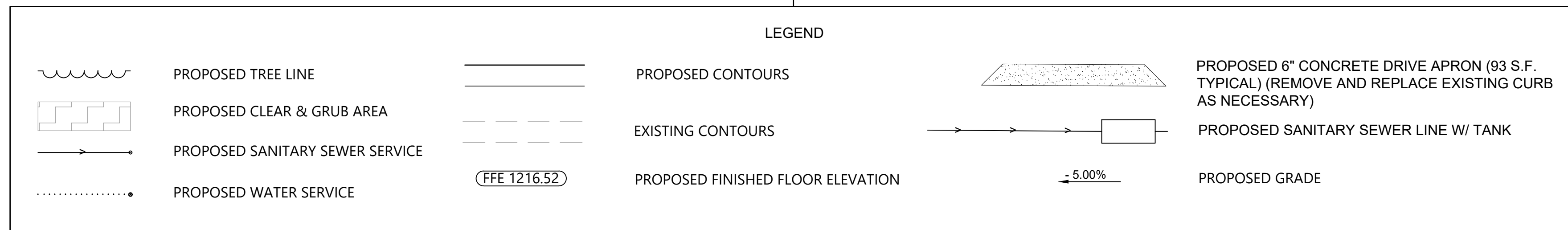
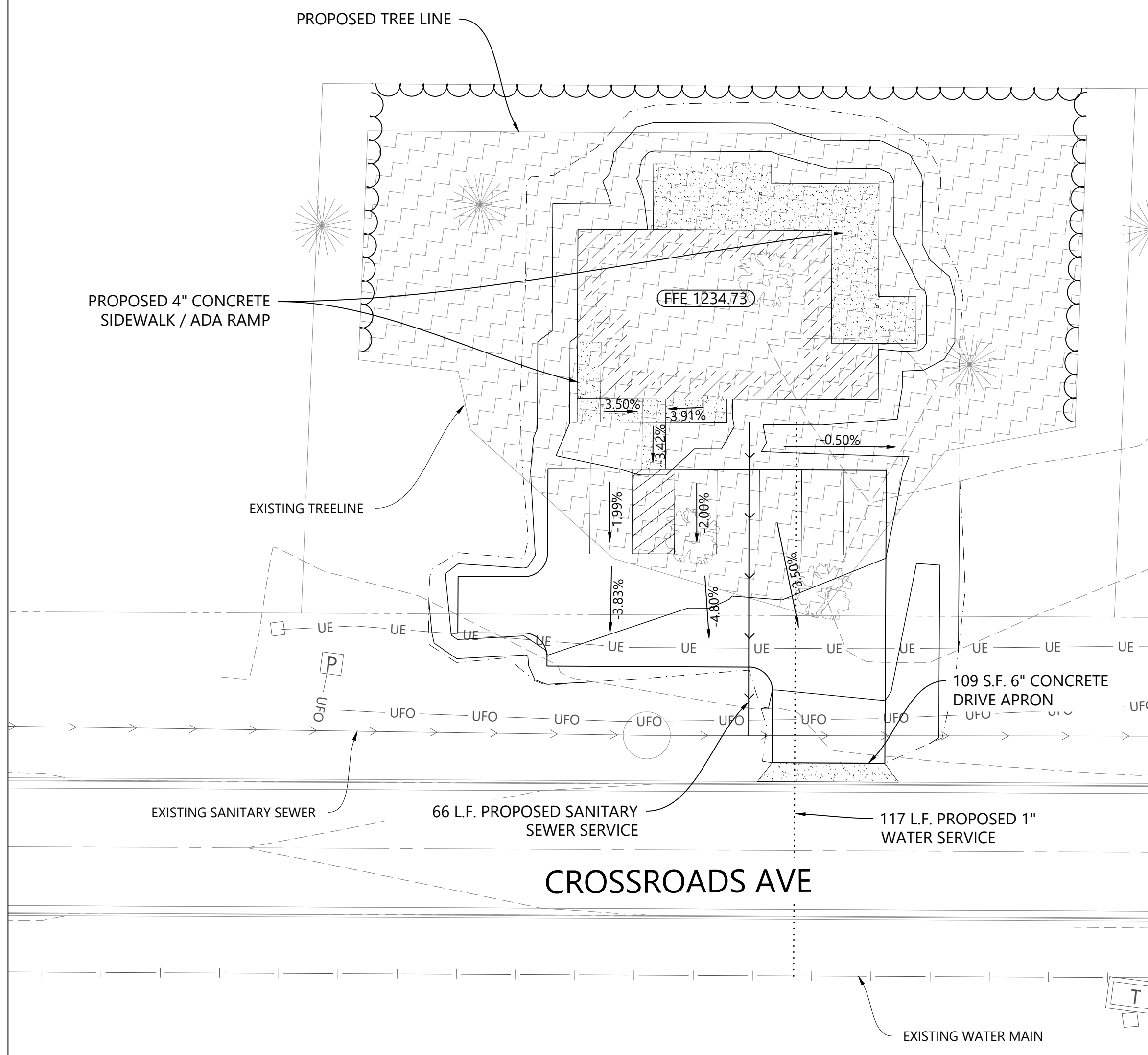
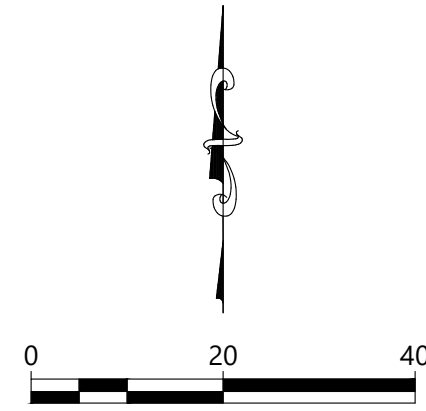
SHEET NO.
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134.6 C.Y. CUT
99.9 TONS CL 5 (DRIVEWAY)
267 S.F. 4" CONCRETE SIDEWALK/PATIO
0.29 ACRES CLEAR & GRUB

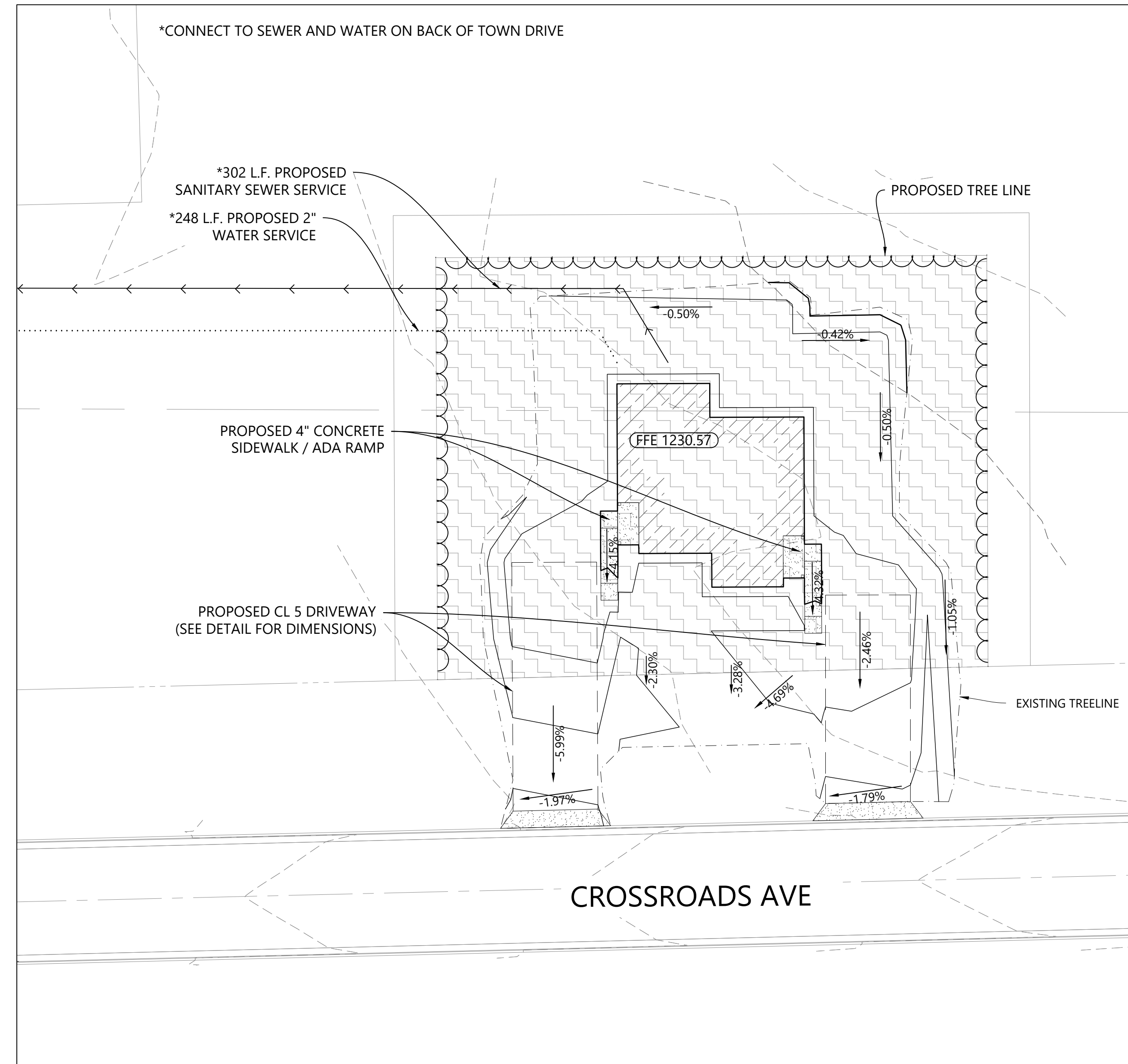
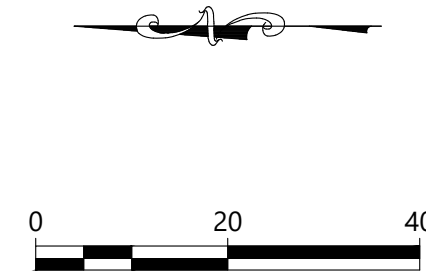


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61.8 C.Y. FILL
84 TONS 3.5" BITUMINOUS SURFACING
175.4 TONS 8" CL 5 BASE
1,169 S.F. 4" CONCRETE SIDEWALK/PATIO
0.28 ACRES CLEAR & GRUB



62.3 C.Y. CUT
75.2 TONS CL 5 (DRIVEWAY)
267 S.F. 4" CONCRETE SIDEWALK/PATIO
0.29 ACRES CLEAR & GRUB

[illegible]

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RED LAKE SUPPORTIVE HOUSING 2
RED LAKE
LOTS 5 AND 6
RED LAKE RESERVATION, MINNESOTA

JOB NO. 23-009
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SHEET NO.
12 OF 19

124.0 C.Y. FILL
66.5 TONS CL 5 (DRIVEWAY)
267 S.F. 4" CONCRETE SIDEWALK/PATIO
0.19 ACRES CLEAR & GRUB



42.4 C.Y. CUT
76.0 TONS 3.5" BITUMINOUS SURFACING
158.7 TONS 8" CL 5 BASE
1,169 S.F. 4" CONCRETE SIDEWALK/PATIO
0.22 ACRES CLEAR & GRUB



JOB NO. 23-009
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14 OF 19

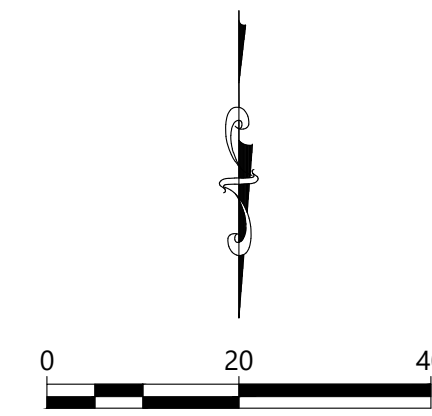
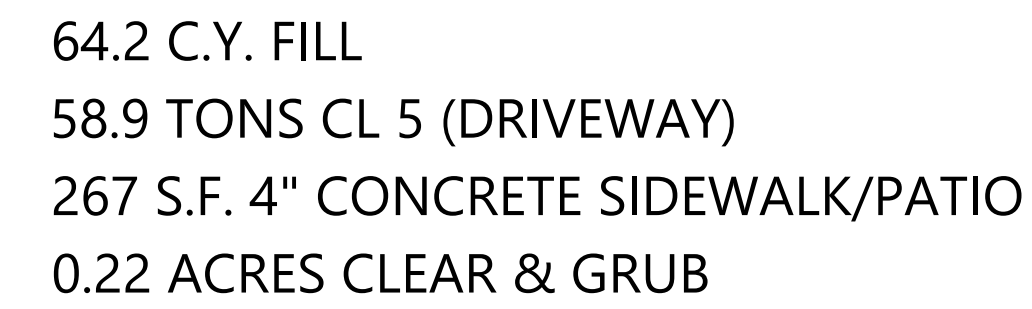
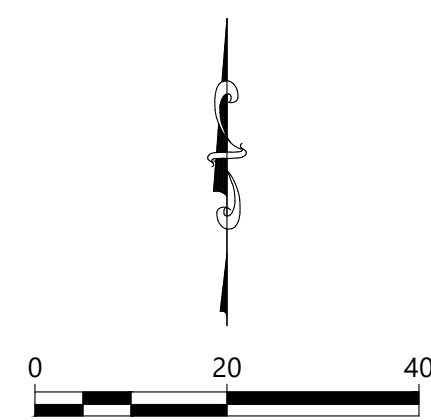
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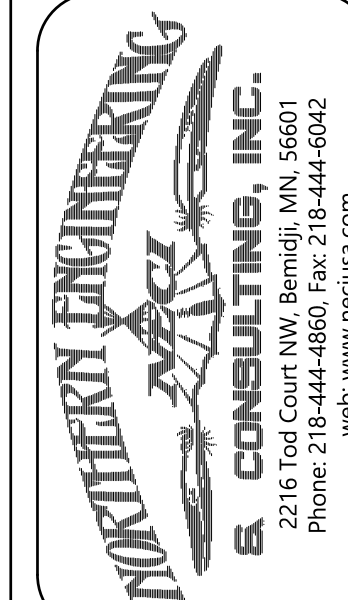


98.5 C.Y. FILL
65.1 TONS CL 5 (DRIVEWAY)
267 S.F. 4" CONCRETE SIDEWALK/PATIO
0.16 ACRES CLEAR & GRUB



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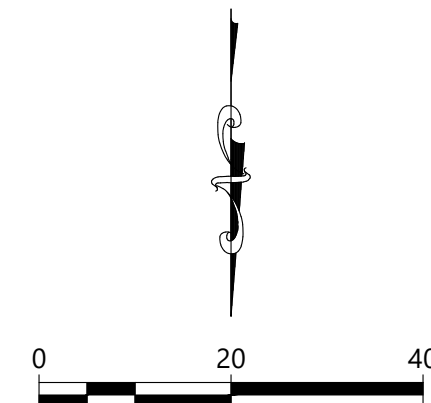
RED LAKE SUPPORTIVE HOUSING 2











REDBY
LOTS 3 AND 4
RED LAKE RESERVATION, MINNESOTA

JOB NO. 23-009
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SHEET NO.
15 OF 19

87.6 C.Y. FILL
61.2 TONS CL 5 (DRIVEWAY)
267 S.F. 4" CONCRETE SIDEWALK/PATIO
0.15 ACRES CLEAR & GRUB



LEGEND	
	PROPOSED TREE LINE
	PROPOSED CLEAR & GRUB AREA
	PROPOSED SANITARY SEWER SERVICE
	PROPOSED WATER SERVICE
	PROPOSED CONTOURS
	EXISTING CONTOURS
	PROPOSED FINISHED FLOOR ELEVATION
	PROPOSED 6" CONCRETE DRIVE APRON (93 S.F. TYPICAL) (REMOVE AND REPLACE EXISTING CURB AS NECESSARY)
	PROPOSED SANITARY SEWER LINE W/ TANK
	PROPOSED GRADE

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MICHAEL C. MCFARLANE LIC. NO. 44195



RED BY
LOT 7

JOB NO. 23-009
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SHEET NO.
16 OF 19

1. AMEND THE SWPPP AND DOCUMENT ANY AND ALL CHANGES TO THE SWPPP AND ASSOCIATED PLAN SHEETS IN A TIMELY MANNER. STORE THE SWPPP AND ALL AMENDMENTS ON SITE AT ALL TIMES.
2. PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR THE ENGINEER'S ACCEPTANCE FOR CONCRETE MANAGEMENT, CONCRETE SLURRY APPLICATION AREAS, WORK IN AND NEAR AREAS OF ENVIRONMENTAL SENSITIVITY, AREAS IDENTIFIED IN THE PLANS AS "SITE MANAGEMENT PLAN AREA", ANY WORK THAT WILL REQUIRE DEWATERING, AND AS REQUESTED BY THE ENGINEER. SUBMIT ALL SITE MANAGEMENT PLANS TO THE ENGINEER IN WRITING. ALLOW A MINIMUM OF 7 DAYS FOR ENGINEER TO REVIEW AND ACCEPT SITE MANAGEMENT PLAN SUBMITTALS. WORK WILL NOT BE ALLOWED TO COMMENCE IF A SITE MANAGEMENT PLAN IS REQUIRED UNTIL THE ENGINEER HAS GRANTED ACCEPTANCE. THERE WILL BE NO EXTRA TIME ADDED TO THE CONTRACT DUE TO THE UNTIMELY SUBMITTAL.
3. IT IS THE DESIGNER'S INTENT THAT THE CONTRACTOR BUILD PONDS AND PLACE EROSION CONTROL BMPS BEFORE PUTTING THEM INTO ACTIVE SERVICE TO THE MAXIMUM EXTENT PRACTICABLE
4. BURNING OF ANY MATERIAL IS NOT ALLOWED WITHIN PROJECT BOUNDARY
5. DO NOT DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS. DELINEATE AREAS NOT TO BE DISTURBED PRIOR TO STARTING GROUND-DISTURBING ACTIVITIES. IF IT BECOMES NECESSARY TO DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS OBTAIN WRITTEN PERMISSION FROM THE PROJECT ENGINEER PRIOR TO PROCEEDING. PRESERVE ALL NATURAL BUFFERS SHOWN ON THE PLANS
6. ROUTE STORM WATER AROUND UNSTABILIZED AREAS OF THE SITE WHENEVER FEASIBLE. PROVIDE EROSION CONTROL AND VELOCITY DISSIPATION DEVICES AS NEEDED TO KEEP CHANNELS FROM ERODING AND TO PREVENT NUISANCE CONDITIONS AT THE OUTLET
7. DIRECT DISCHARGES FROM BMPS TO VEGETATED AREAS WHENEVER FEASIBLE. PROVIDE VELOCITY DISSIPATION DEVICES AS NEEDED TO PREVENT EROSION
8. THE EROSION PREVENTION AND SEDIMENT CONTROL BMPS SHALL BE PLACED AS NECESSARY TO MINIMIZE EROSION FROM DISTURBED SURFACES AND TO CAPTURE SEDIMENT ON SITE. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF ANY REMOVAL WORK AND/OR GROUND DISTURBING ACTIVITIES COMMENCE
9. ESTABLISH SEDIMENT CONTROL DEVICES ON ALL DOWN GRADIENT PERIMETERS AND UPGRADEMENT OF ANY BUFFER ZONES BEFORE ANY UP GRADIENT LAND DISTURBING ACTIVITIES BEGIN. MAINTAIN SEDIMENT CONTROL DEVICES UNTIL CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
10. LOCATE PERIMETER CONTROL ON THE CONTOUR TO CAPTURE OVERLAND, LOW-VELOCITY SHEET FLOWS DOWN GRADIENT OF ALL EXPOSED SOILS AND PRIOR TO DISCHARGING TO SURFACE WATERS. PLACE J-HOOKS AT A MAXIMUM OF 100 FEET INTERVALS.
11. PROVIDE PERIMETER CONTROL AROUND ALL STOCKPILES. PLACE BMP A MINIMUM 5 FEET FROM THE TOE OF SLOPE WHERE FEASIBLE. DO NOT PLACE STOCKPILES IN NATURAL BUFFER AREAS, SURFACE WATERS OR STORM WATER CONVEYANCES
12. FLOATING SILT CURTAIN IS ALLOWED AS PERIMETER CONTROL FOR IN WATER WORK ONLY. PLACE THE FLOATING SILT CURTAIN AS CLOSE TO SHORE AS POSSIBLE. PLACE PERIMETER CONTROL BMP ON LAND IMMEDIATELY AFTER THE IN WATER WORK IS COMPLETED
13. DITCH CHECKS WILL BE PLACED AS INDICATED ON THE PLANS DURING ALL PHASES OF CONSTRUCTION
14. PROTECT STORM SEWER INLETS AT ALL TIMES WITH THE APPROPRIATE INLET PROTECTION FOR EACH SPECIFIC PHASE OF CONSTRUCTION. PROVIDE INLET PROTECTION DEVICES WITH EMERGENCY OVERFLOW CAPABILITIES. SILT FENCE PLACED IN THE INLET GRATE IS NOT AN ACCEPTABLE INLET PROTECTION BMP FOR GRADING OPERATIONS. SILT FENCE PLACED IN THE GRATE IS ONLY ALLOWED FOR SHORT INTERVALS DURING MILLING OR PAVING OPERATIONS. INLET PROTECTION DEVICES MAY NEED TO BE PLACED MULTIPLE TIMES IN THE SAME LOCATION OVER THE LIFE OF THE CONTRACT. INLET PROTECTION DEVICES WILL BE PAID FOR ONCE PER INLET REGARDLESS OF THE NUMBER OF TIMES THE BMP IS PLACED. KEEP ALL STORM SEWER INLET PROTECTION DEVICES IN GOOD FUNCTIONAL CONDITION AT ALL TIMES. REPLACE INLET PROTECTION DEVICE WITH A SUITABLE ALTERNATIVE IF THE PROJECT ENGINEER DEEMS AN INLET PROTECTION DEVICE TO BE NONFUNCTIONAL, IN POOR CONDITION, INEFFECTIVE, OR NOT APPROPRIATE FOR THE CURRENT CONSTRUCTION ACTIVITIES. THERE WILL BE NO COST TO MNDOT FOR REPLACEMENT OF INLET PROTECTION DEVICES
15. PLACE CONSTRUCTION EXITS, AS NECESSARY, TO PREVENT TRACKING OF SEDIMENT ONTO PAVED SURFACES BOTH ON AND OFF THE PROJECT SITE. PROVIDE CONSTRUCTION EXITS OF SUFFICIENT SIZE TO PREVENT TRACK OUT. MAINTAIN CONSTRUCTION EXITS WHEN EVIDENCE OF TRACKING IS DISCOVERED. REGULAR STREET SWEEPING IS NOT AN ACCEPTABLE ALTERNATIVE TO PROPER CONSTRUCTION EXIT INSTALLATION AND MAINTENANCE
16. DISCHARGE TURBID OR SEDIMENT LADEN WATER TO TEMPORARY SEDIMENT BASINS WHENEVER FEASIBLE. IN THE EVENT THAT IT IS NOT FEASIBLE TO DISCHARGE THE SEDIMENT LADEN WATER TO A TEMPORARY SEDIMENT BASIN, THE WATER MUST BE TREATED SO THAT IT DOES NOT CAUSE A NUISANCE CONDITION IN THE RECEIVING WATERS OR TO DOWNSTREAM LANDOWNERS. CLEAN OUT ALL PERMANENT STORM WATER BASINS REGARDLESS OF WHETHER USED AS TEMPORARY SEDIMENT BASINS OR TEMPORARY SEDIMENT TRAPS TO THE DESIGN CAPACITY AFTER ALL UPGRADEMENT LAND DISTURBING ACTIVITY IS COMPLETED
17. PROVIDE SCOUR PROTECTION AT ANY OUTFALL OF DEWATERING ACTIVITIES
18. PROVIDE STABILIZATION IN ANY TRENCHES CUT FOR DEWATERING OR SITE DRAINING PURPOSES
19. REMOVE SEDIMENT FROM STORM WATER SYSTEM AT THE END OF PROJECT
20. PRESERVE A 50 FOOT NATURAL BUFFER OR (IF BUFFER IS INFEASIBLE) PROVIDE REDUNDANT SEDIMENT CONTROLS WHEN A SURFACE WATER IS LOCATED WITHIN 50 FEET OF LAND DISTURBANCE AND STORM WATER FLOWS TO THE SURFACE WATER.

1. PROVIDE A SPILL KIT AT EACH WORK LOCATION ON THE SITE
2. STORE ALL BUILDING MATERIALS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS, PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, TREATMENT CHEMICALS, AND LANDSCAPE MATERIALS UNDER COVER AND WITH SECONDARY CONTAINMENT.
3. PROVIDE A SECURE STORAGE AREA WITH RESTRICTED ACCESS FOR ALL HAZARDOUS MATERIALS AND TOXIC WASTE. RETURN ALL HAZARDOUS MATERIALS AND TOXIC WASTE TO THE DESIGNATED STORAGE AREA AT THE END OF THE BUSINESS DAY UNLESS INFEASIBLE. STORE ALL HAZARDOUS MATERIALS AND TOXIC WASTE (INCLUDING BUT NOT LIMITED TO OIL, DIESEL FUEL GASOLINE, HYDRAULIC FLUIDS, PAINT, PETROLEUM BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) IN SEALED CONTAINERS WITH SECONDARY CONTAINMENT. CLEAN UP SPILLS IMMEDIATELY. STORE, COLLECT AND DISPOSE OF ALL SOLID WASTE.
4. POSITION ALL PORTABLE TOILETS SO THAT THEY ARE SECURE AND CANNOT BE TIPPED OR KNOCKED OVER. PROPERLY DISPOSE OF ALL SANITARY WASTE
6. FUEL AND MAINTAIN VEHICLES IN A DESIGNATED CONTAINED AREA WHENEVER FEASIBLE. USE DRIP PANS OR ABSORBENT MATERIALS TO PREVENT SPILLS OR LEAKED CHEMICALS FROM DISCHARGING TO SURFACE WATER OR STORM WATER CONVEYANCES. PROVIDE A SPILL KIT AT EACH LOCATION THAT VEHICLES AND EQUIPMENT ARE FUELED OR MAINTAINED.
7. LIMIT VEHICLE AND EQUIPMENT WASHING TO A DEFINED AREA OF THE SITE. CONTAIN RUNOFF FROM THE WASHING AREA TO A TEMPORARY SEDIMENT BASIN OR OTHER EFFECTIVE CONTROL. PROPERLY DISPOSE OF ALL WASTE GENERATED BY VEHICLE AND EQUIPMENT WASHING. ENGINE DEGREASING IS NOT ALLOWED ON THE SITE.
8. PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OF CONCRETE, STUCCO PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS. LIQUID AND SOLID WASHOUT WASTES MUST NOT CONTACT THE GROUND. DESIGN THE CONTAINMENT SO THAT IT DOES NOT RESULT IN RUNOFF FROM THE WASHOUT OPERATIONS OR CONTAINMENT AREA.
9. CREATE AND FOLLOW A WRITTEN DISPOSAL PLAN FOR ALL WASTE MATERIALS. INCLUDE IN THE PLAN HOW THE MATERIAL WILL BE DISPOSED OF AND THE LOCATION OF THE DISPOSAL SITE. SUBMIT PLAN TO THE ENGINEER.
10. USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT DISCHARGE OR PLACEMENT OF BITUMINOUS GRINDINGS, CUTTINGS, MILLINGS, AND OTHER BITUMINOUS WASTES FROM AREAS OF EXISTING OR FUTURE VEGETATED SOILS AND FROM ALL WATER CONVEYANCE SYSTEMS, INCLUDING INLETS, DITCHES AND CURB FLOW LINES.
11. USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT CONCRETE DUST, PARTICLES, CONCRETE WASH OUT, AND OTHER CONCRETE WASTES FROM LEAVING MNDOT RIGHT OF WAY, DEPOSITING IN EXISTING OR FUTURE VEGETATED AREAS, AND FROM ENTERING STORM WATER CONVEYANCE SYSTEMS, INCLUDING INLETS, DITCHES AND CURB FLOW LINES. USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT SAW CUT SLURRY AND PLANNING WASTE FROM LEAVING MNDOT RIGHT OF WAY AND FROM ENTERING STORM WATER CONVEYANCE SYSTEMS INCLUDING DITCHES AND CULVERTS.

INSPECT THE ENTIRE CONSTRUCTION SITE A MINIMUM OF ONCE EVERY SEVEN DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. INSPECT ALL TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT, EROSION PREVENTION AND SEDIMENT CONTROL BMPs UNTIL THE SITE HAS UNDERGONE FINAL STABILIZATION AND THE NOT HAS BEEN SUBMITTED. INSPECT SURFACE WATER INCLUDING DRAINAGE DITCHES FOR SIGNS OF EROSION AND SEDIMENT DEPOSITION. INSPECT CONSTRUCTION SITE VEHICLE EXIT LOCATIONS FOR EVIDENCE OF TRACKING ONTO PAVED SURFACES. INSPECT SURROUNDING PROPERTIES FOR EVIDENCE OF OFF SITE SEDIMENT ACCUMULATION. INSPECT INFILTRATION AREAS FOR SIGNS OF SEDIMENT DEPOSITION AND COMPACTION (TO ENSURE THAT EQUIPMENT IS NOT BEING DRIVEN ACROSS THE AREA).

- A. DATE AND TIME OF INSPECTIONS
- B. NAME OF PERSONS CONDUCTING INSPECTIONS
- C. FINDINGS OF INSPECTIONS. INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIONS
- D. CORRECTIVE ACTIONS TAKEN, INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES
- E. DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCH IN 24 HOURS
- F. DOCUMENTS AND CHANGES MADE TO THE SWPPP

- A. REPAIR, REPLACE, OR SUPPLEMENT PERIMETER CONTROL DEVICES WHEN IT BECOMES NONFUNCTIONAL OR SEDIMENT 1/3 THE HEIGHT OF THE DEVICE. COMPLETE REPAIRS BY THE END OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY.
- B. REPAIR OR REPLACE INLET PROTECTION DEVICES WHEN THEY BECOME NONFUNCTIONAL OR SEDIMENT REACHES 1/3 THE HEIGHT AND/OR DEPTH OF THE DEVICE.
- C. DRAIN AND REMOVE SEDIMENT FROM TEMPORARY AND PERMANENT SEDIMENT BASINS ONCE THE SEDIMENT HAS REACHED 1/3 THE STORAGE VOLUME. COMPLETE WORK WITHIN 72 HOURS OF DISCOVERY.
- D. REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS. RESTABILIZE ANY AREAS THAT ARE DISTURBED BY SEDIMENT REMOVAL OPERATIONS. SEDIMENT REMOVAL AND STABILIZATION MUST BE COMPLETED WITHIN 7 DAYS OF DISCOVERY. PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR WORKING IN SURFACE WATERS. CONTACT ALL APPROPRIATE AUTHORITIES PRIOR TO WORKING IN SURFACE WATERS.
- E. REMOVE TRACKED SEDIMENT FROM PAVED SURFACES BOTH ON AND OFF SITE WITHIN 24 HOURS OF DISCOVERY. STREET SWEEPING MAY HAVE TO OCCUR MORE OFTEN TO MINIMIZE OFF SITE IMPACTS. LIGHTLY WET THE PAVEMENT PRIOR TO SWEEPING.
- F. MAINTAIN ALL BMPs UNTIL WORK HAS BEEN COMPLETED, SITE HAS GONE UNDER FINAL STABILIZATION, AND THE NOTICE OF TERMINATION HAS BEEN SUBMITTED.

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PROJECT DESCRIPTION

SPECIAL AND IMPAIRED WATERS

ENVIRONMENTALLY SENSITIVE AREAS

LONG TERM OPERATION AND MAINTENANCE

SWPPP TRAINING

ENVIRONMENTAL REVIEW

THIS PROJECT IS NOT LOCATED IN A WELL HEAD PROTECTION AREA.

SOIL TYPES

CHAIN OF RESPONSIBILITY

PROJECT CONTACTS

STABILIZATION TIME FRAMES		
AREA	TIME FRAME	NOTES
LAST 200 LINEAL FEET OF DRAINAGE DITCH OR SWALE	WITHIN 24 HOURS OF CONNECTION TO SURFACE WATER OR POROPROPERTY EDGE	1, 2, 3
REMAINING PORTIONS OF DRAINAGE DITCH OR SWALE	14 DAYS / 7 DAYS	1, 3
PIPE AND CULVERT OUTLETS	24 HOURS	
EXPOSED SOILS AND STOCKPILES	14 DAYS / 7 DAYS	1
WITHIN 200 FEET OF A PUBLIC WATER	24 HOURS	7

- ## LOCATION OF SWPPP REQUIREMENTS

REVISIONS:

[illegible]

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Michael C. McFarlane

MICHAEL C. MCFARLANE
LIC. NO. 44196

RED LAKE SUPPORTIVE HOUSING 2

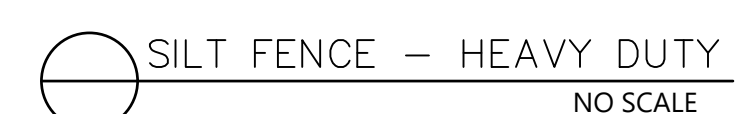
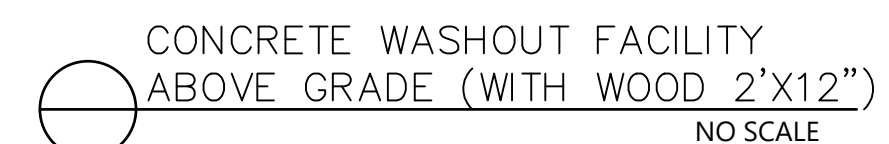
SWPPP DETAILS

RED LAKE RESERVATION, MINNESOTA

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