

1. **PROPOSED SCOPE OF WORK**
 - 1.1. THE INTENT OF THIS PROCEDURE IS TO OUTLINE THE DEMOLITION SEQUENCE OF GRAVELBOURG WATER TOWER LOCATED AT 1 AVE W AND BETTEZ ST, GRAVELBOURG, AB (DETAIL 1).
 - 1.2. REFER TO CONTRACT DRAWINGS AND DOCUMENTS FOR FULL DESCRIPTION OF WORK.
 - 1.3. ALL WORK IS TO BE COMPLETED IN ACCORDANCE WITH THE MOST RECENT VERSION:
 - 1.3.1. OCCUPATIONAL HEALTH AND SAFETY ACT.
 - 1.3.2. ALL MUNICIPAL SAFETY REGULATIONS.
 - 1.3.3. CODE OF PRACTICE FOR SAFETY IN DEMOLITION OF STRUCTURES CSA S350-M1980 (R2003).

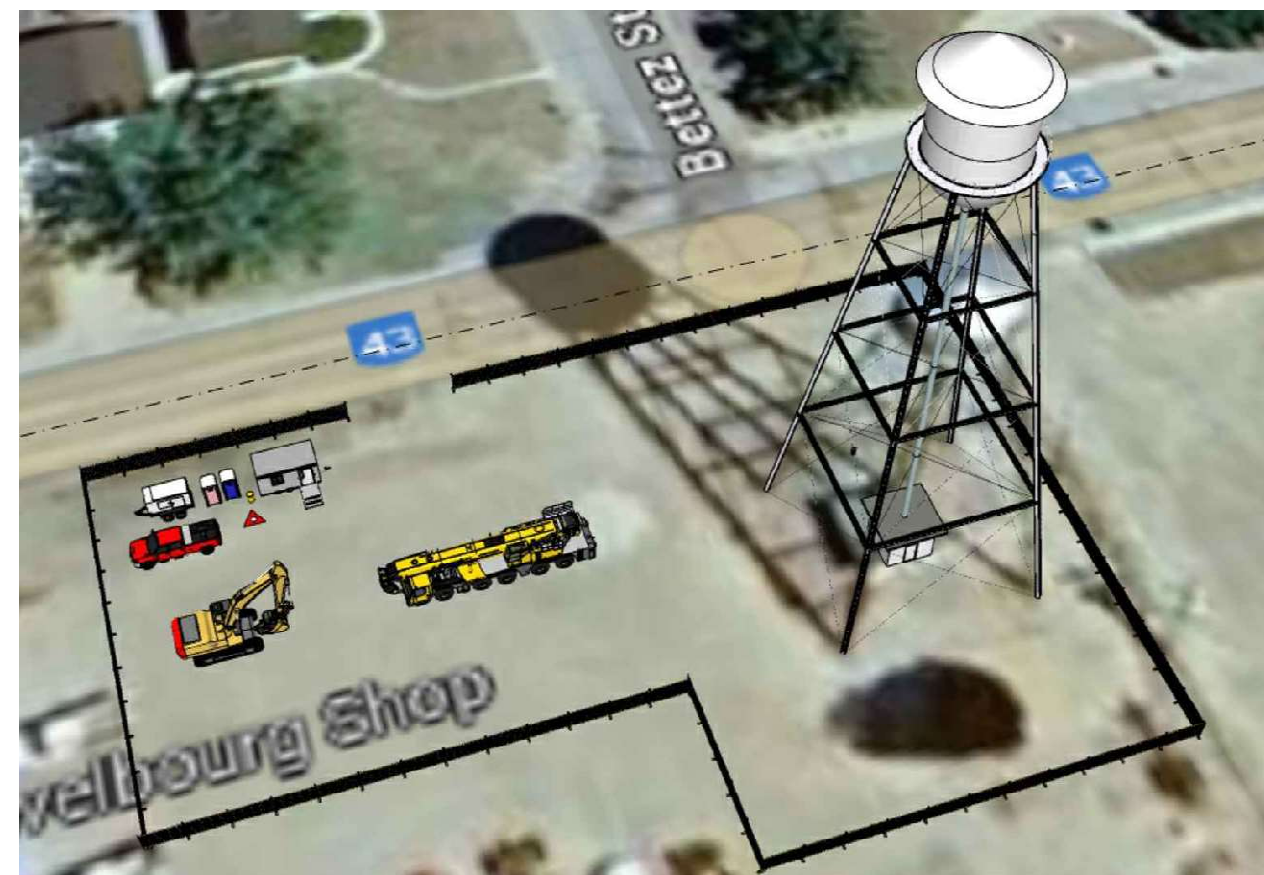
2. **DEMOLITION NOTES**
 - 2.1. **DEMOLITION METHODOLOGY:** WATER TOWER TO BE CUT IN FOUR PORTIONS USING A MOBILE CRANE THEN EACH PORTION TO BE DEMOLISHED ON GROUND LEVEL USING EXCAVATOR WITH METAL SHEARS.
 - 2.2. ALL METHODOLOGIES AND EQUIPMENT DESCRIBED HEREIN MUST ADAPT TO SITE CONDITIONS FOR SAFE EXECUTION OF THE DEMOLITION WORK, AND THEREBY, SUBJECT TO MODIFICATION AS REQUIRED. ALL MODIFICATIONS ARE SUBJECT TO REVIEW BY PDI DEMOLITION ENGINEER.
 - 2.3. PACE DAILY SECTIONAL REMOVALS, SUCH THAT THE REMAINING STRUCTURE AT THE END OF THE WORKDAY IS LEFT IN A STRUCTURALLY STABLE CONDITION TO PREVENT UNATTENDED FALL OR COLLAPSE OF ANY FREESTANDING WALL.
 - 2.4. IF ANY ELEMENTS OF THE PROCEDURE ARE NOT CLEAR OR ELEMENTS ARE FOUND NOT TO BE AS DESCRIBED, THE WORK IS TO BE HALTED AND CLARIFICATION TO BE OBTAINED FROM PDI DEMOLITION ENGINEER.
 - 2.5. REGULARLY CLEAN ALL DEBRIS GENERATED FROM THE DEMOLITION WITH APPROVED MACHINE WITH GRAPPLE ATTACHMENT AND BY HAND AS REQUIRED. SORT BUILDING MATERIALS ACCORDING TO THEIR TYPE.
 - 2.6. THIS DEMOLITION PLAN DETAILS THE SAFE METHOD OF DEMOLITION OF THE STRUCTURES. PDI DEMOLITION ENGINEER HAS NOT REVIEWED THE STRUCTURES TO REMAIN (POST DEMOLITION). THE REVIEW OF THE STRUCTURES TO REMAIN ARE THE RESPONSIBILITY OF THE PROJECT DESIGN ENGINEER (UNLESS NOTED OTHERWISE).
 - 2.7. STRUCTURAL RECORD DRAWINGS WERE NOT AVAILABLE AT THE TIME THIS DEMOLITION PLAN WAS CREATED.

3. **PRE-DEMOLITION TASKS**
 - 3.1. ALL WORKERS WILL BE EQUIPPED WITH THE PROPER PPE AND TOOL BOX TALKS HELD DAILY.
 - 3.2. IF AT ANY TIME THE EXISTING CONDITIONS VARY FROM WHAT DESCRIBED IN THIS DRAWING SET, WORKS SHALL HALT AND PDI DEMOLITION ENGINEERS SHALL BE CONTACTED FOR FURTHER REVIEW AND ASSESSMENT.
 - 3.3. ALL HAZARDOUS MATERIALS TO BE REMOVED / DISPOSED AND CLEARANCE LETTER TO BE ISSUED PRIOR DEMOLITION WORKS START.
 - 3.4. IF REQUIRED, SITE SHALL BE SECURED WITH FENCES TO PREVENT PUBLIC, PEDESTRIAN, WILDLIFE OR UNATTENDED PERSONNEL FROM ENTERING THE DEMOLITION ZONE.
 - 3.5. ALL PROTECTION TO ADJACENT SERVICES, STRUCTURES, ROADS AND PUBLIC WALKWAYS SHALL BE INSTALLED, AS REQUIRED, PRIOR TO ANY DEMOLITION TAKES PLACE.
 - 3.6. ALL BUILDING UTILITIES AND SERVICES TO BE DISCONNECTED. DEMOLITION PERMIT TO BE ISSUED AND PUBLIC POSTED PRIOR DEMOLITION STARTS.
 - 3.7. THE LOCATION OF ALL SUSPENDED ROOF, SLABS, BASEMENT AREAS, OVERHEAD POWER LINES, SERVICE TUNNELS AND/OR UNDERGROUND FACILITIES SHALL BE LOCATED, VERIFIED AND CLEARLY IDENTIFIED TO ALL MACHINE OPERATORS.
 - 3.8. MACHINES OR EQUIPMENT ARE NOT TO OPERATE OVERTOP SUSPENDED SLABS UNLESS SPECIFICALLY APPROVED BY A PROFESSIONAL ENGINEER.
 - 3.9. DUST CONTROL AVAILABLE AND TO BE USED AS NEEDED. USE EITHER MUNICIPAL PORTABLE WATER METER CONNECTED TO NEAREST HYDRANT OR WATER TRUCK.
 - 3.10. IMPLEMENT NOISE CONTROLS AS USE OF CONCRETE SHEARS INSTEAD OF HYDRAULIC BREAKER. REFER TO MUNICIPAL BYLAW FOR ALLOWED WORKING HOURS.

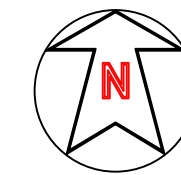
4. **POST DEMOLITION TASKS**
 - 4.1. REGULARLY CLEAN ALL DEBRIS GENERATED FROM THE DEMOLITION WITH APPROVED MACHINE AND BY HAND AS REQUIRED.
 - 4.2. SORT BUILDING MATERIALS ACCORDING TO THEIR TYPE.
 - 4.3. PREPARE AND LOAD MATERIALS TO SHIP OFF-SITE INTO RECYCLING AND/OR DISPOSAL FACILITIES.
4. **STRUCTURE DESCRIPTION:**
BASED ON REVIEW OF PROJECT DRAWINGS AND ON-SITE INVESTIGATIONS, FOLLOWING STRUCTURE DESCRIPTION WAS NOTED:
 - 4.1. WATER TANK CAPACITY IS 75,000 US GALLON. TOP OF TANKS IS APPROX. 157 FT. FROM GROUND LEVEL.
 - 4.2. WATER TANK ROOF CONSIST OF STD CONICAL STEEL SHEETING WITH ANGLE AT EDGE ACCESS BY STD. REVOLVING LADDER.
 - 4.3. WATER TANK BODY CONSIST OF STEEL SHEETING WALLS SUPPORTED BY 4 LATTICE STEEL POSTS CONNECTED WITH STEEL STRUTS AND DIAGONAL STEEL RODS. ACCESSED BY PERIMETER BALCONY AND HANDRAIL.
 - 4.4. STRUCTURE STEEL POSTS ARE SUPPORTED BY STEEL H SECTIONS PILES TO GROUND.



① GRAVELBOURG WATER TOWER KEY SITE

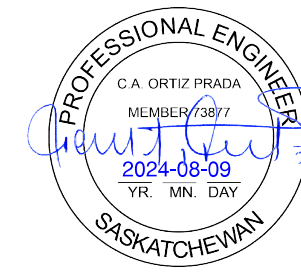


② WATER TOWER SITE VIEW



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1	ISSUED FOR TENDER	2024-07-26
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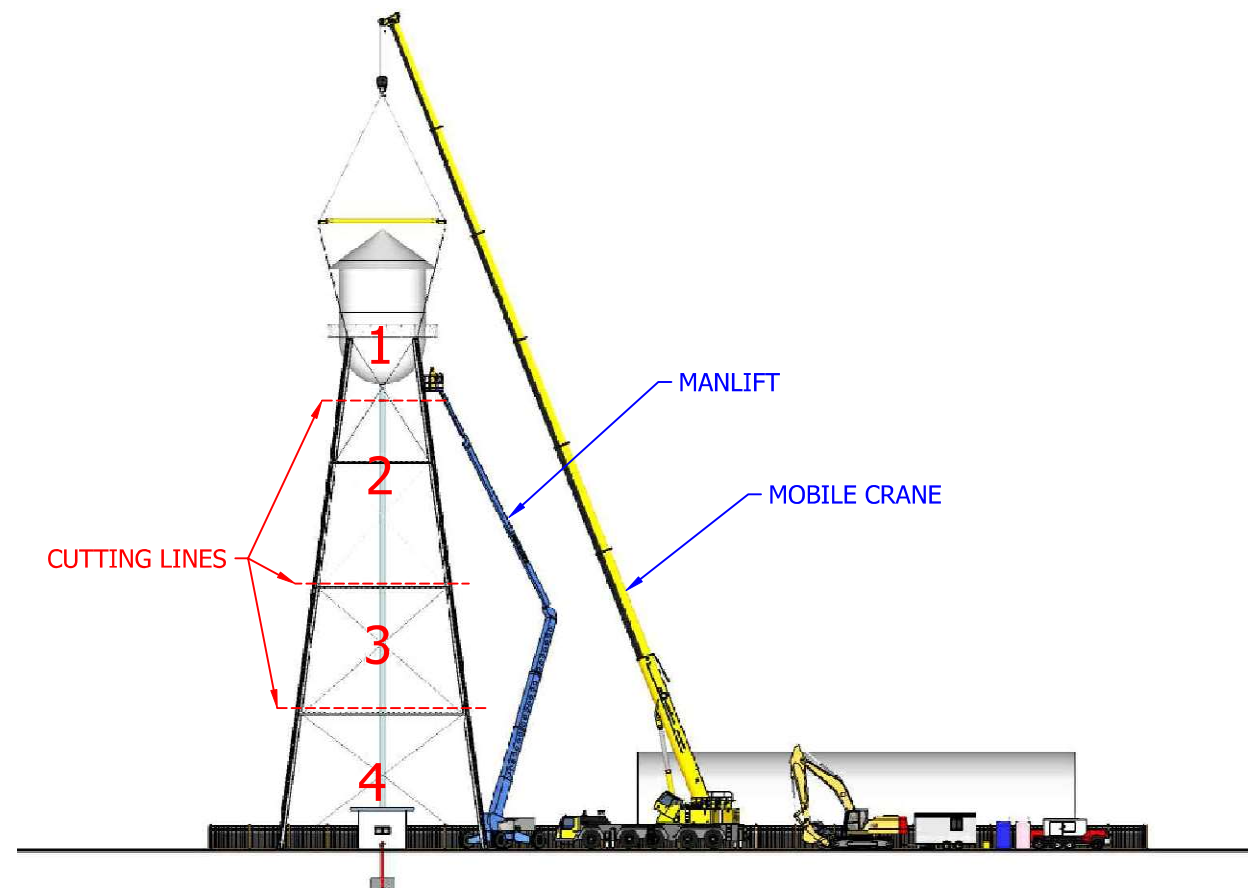


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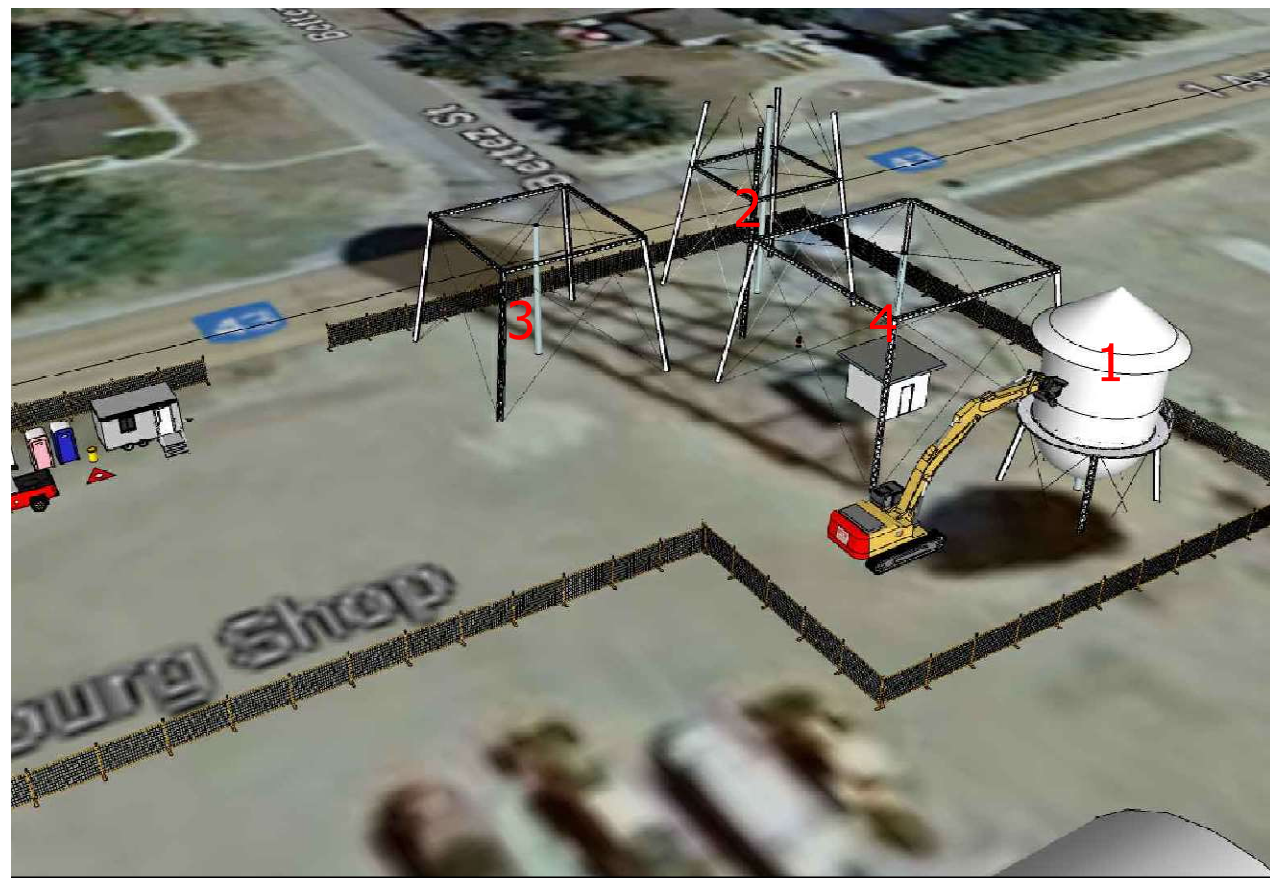
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6. WATER TOWER PROPOSED DEMOLITION SEQUENCING:

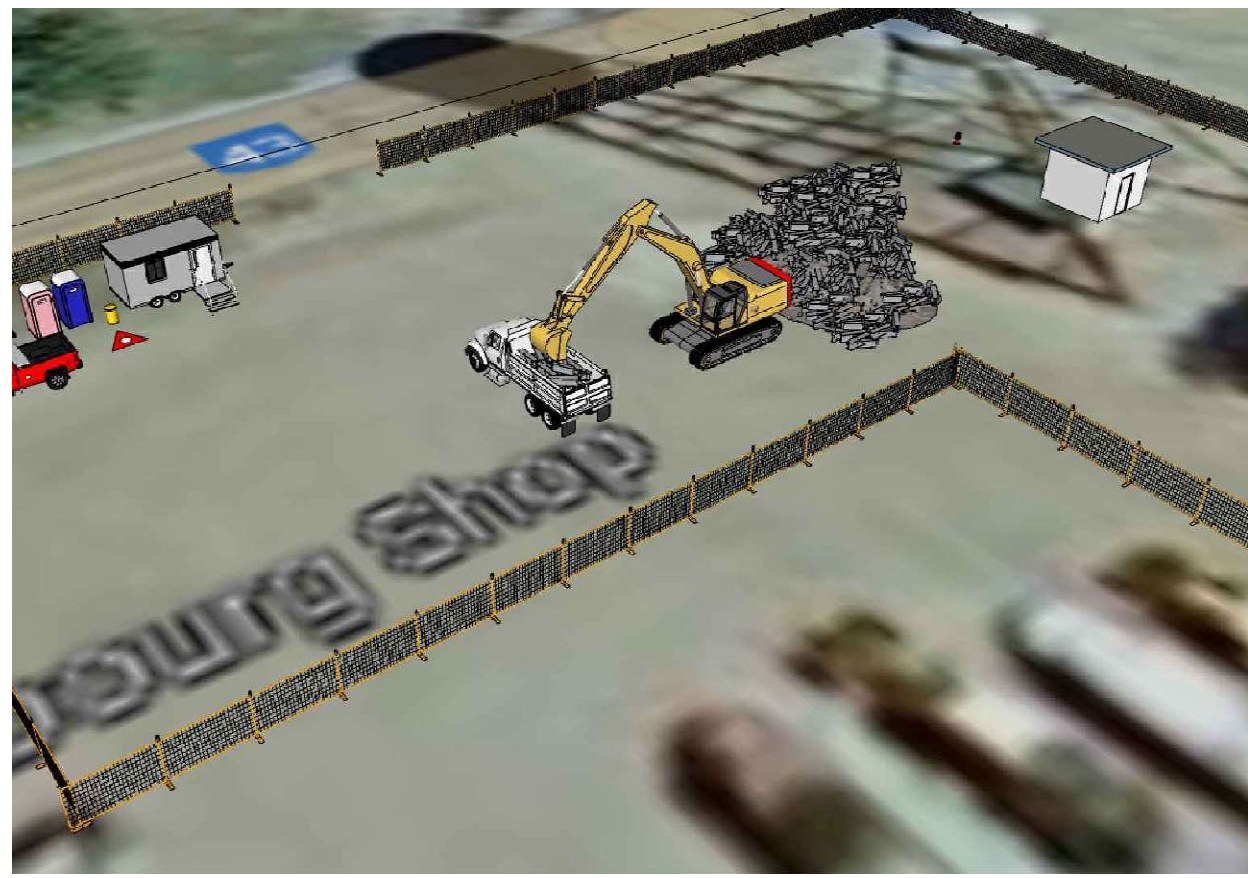
1. MOBILIZE EQUIPMENT AND DEMOLITION CREW TO SITE. INSTALL TEMPORARY FENCE (REFER TO DETAIL 2).
2. VERIFY POWER, GAS LINE AND WATERLINE HAS BEEN DISCONNECTED.
3. DRAIN REMAINING WATER INSIDE THE TANK CONNECTING THE HYDRANT LOCATED ON NORTH SIDE OF WATER TOWER, TO THE CLOSEST STORM CATCH BASIN ON ARTHABASCA ST. AND 2ND AVENUE W. INSTALL TRAFFIC SIGNAGE AND BUMP PADS TO PROTECT DRAIN HOSE AS NEEDED. (TANK EMPTYING TO BE DONE AT NIGHT IF POSSIBLE).
4. WATER TOWER TO BE CUT IN FOUR PORTIONS USING A MOBILE CRANE THEN EACH PORTION TO BE DEMOLISHED ON GROUND LEVEL USING EXCAVATOR WITH METAL SHEARS.
5. USE MANLIFT TO ACCESS TOWER POSTS CUTTING LINES AND REMOVE PAINT BY USING GRINDERS WITH HEPA FILTERS.
6. LAYDOWN GEOTEXTILE CLOTH AROUND THE WATER TOWER WHERE STRUCTURAL SECTIONS WILL BE PLACED FOR LATER DEMOLITION AND METAL PROCESSING.
7. WITH CRANE IN POSITION, USE MANLIFT TO INSTALL RIGGING COMPONENTS AROUND TANK SECTION OF WATER TOWER #1. (REFER TO DETAIL 3). - WIND THRESHOLD MAXIMUM 30 KM/HR.
8. WHILE CRANE HOLD IN POSITION THE TANK SECTION, TORCH CUT ALL FOUR POSTS, MAIN PIPE, AND STRUCTURAL COMPONENTS AROUND WATER TOWER.
9. ONCE TANK SECTION IS RELEASED, USE CRANE TO REMOVE TANK AND PLACE ON GROUND LEVEL. (DETAIL 3).
10. USE THE MOBILE CRANE AND MANLIFT TO RIG AND REMOVE SECTION 2 AND 3 FOLLOWING ABOVE METHODOLOGY. BOTTOM SECTION #4 TO BE DEMOLISHED ON PLACE.
11. DEMOBILIZE CRANE AND MANLIFT FROM SITE.
12. WATER TOWER SECTIONS, NOW LOCATED ON GROUND LEVEL, TO BE DEMOLISHED IN A TOP-DOWN FASHION (REFER TO DETAIL 4).
13. ONCE WATER TOWER STRUCTURE HAS BEEN COMPLETELY DEMOLISHED, PROCESS METAL TO DISPOSAL SIZE.
14. AS DEMOLITION PROGRESS, SORT WASTE ACCORDING TO THEIR TYPE, LOAD AND DISPOSE WASTE TO AUTHORIZED RECYCLING FACILITIES.
15. ONCE WATER TOWER HAS BEEN DEMOLISHED ENTIRELY TO GROUND LEVEL, AND METAL WASTE HAS BEEN REMOVED FROM SITE, USING EXCAVATOR WITH BREAKER, DEMOLISH THE TOWER SHACK TO SLAB ON GRADE.
16. VERIFY UTILITY LOCATES WITH EQUIPMENT OPERATOR.
17. USING EXCAVATOR WITH HYDRAULIC BREAKER ATTACHMENT, DEMOLISH CONCRETE S.O.G., AND CONCRETE PILE CAPS.
18. USING DIGGING BUCKET, EXCAVATE TO EXPOSE THE CONCRETE THRUST BLOCK DOWN TO DESIGN DEPTH.
19. CUT AND CAP UNDERGROUND MAIN PIPE TO DESIGN CUTTING LINE.
20. PROCESS WASTE AND CONCRETE TO DISPOSAL SIZE. REMOVE METAL AND RUBBLE FROM SITE.
21. PLACE AND COMPACT MATERIAL AS PER BACKFILL SPECIFICATION. IMPORT FILL MATERIAL TO SITE, AS NEEDED.
22. VERIFY BACKFILL ELEVATION AND POSITIVE DRAINAGE.
23. REMOVE TEMPORARY FACILITIES AND DEMOBILIZE EQUIPMENT / PERSONNEL FROM SITE.



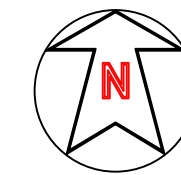
3 WATER TOWER CRANE OPERATION VIEW



4 WATER TOWER SECTIONS DEMOLITION VIEW



5 WATER TOWER LOADING AND DISPOSAL VIEW



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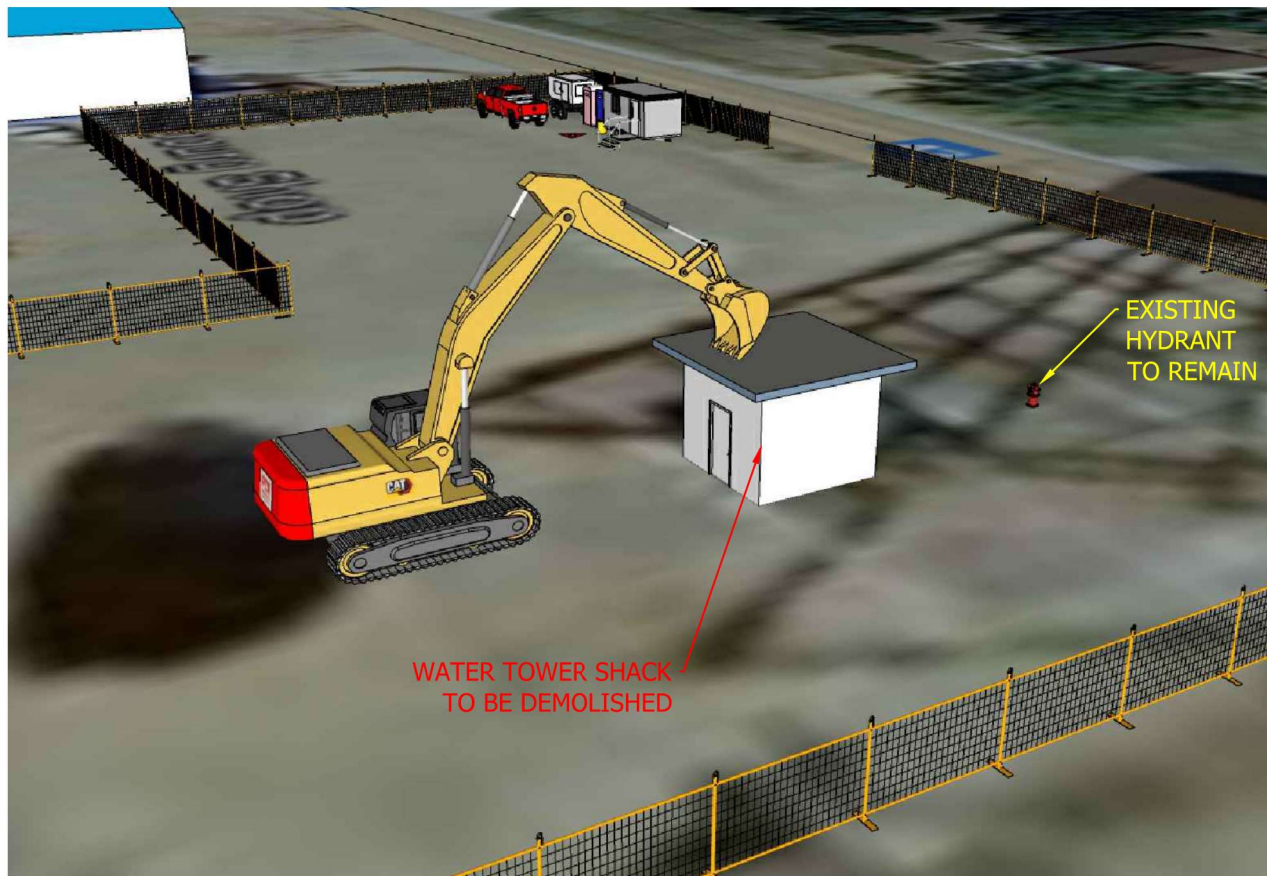


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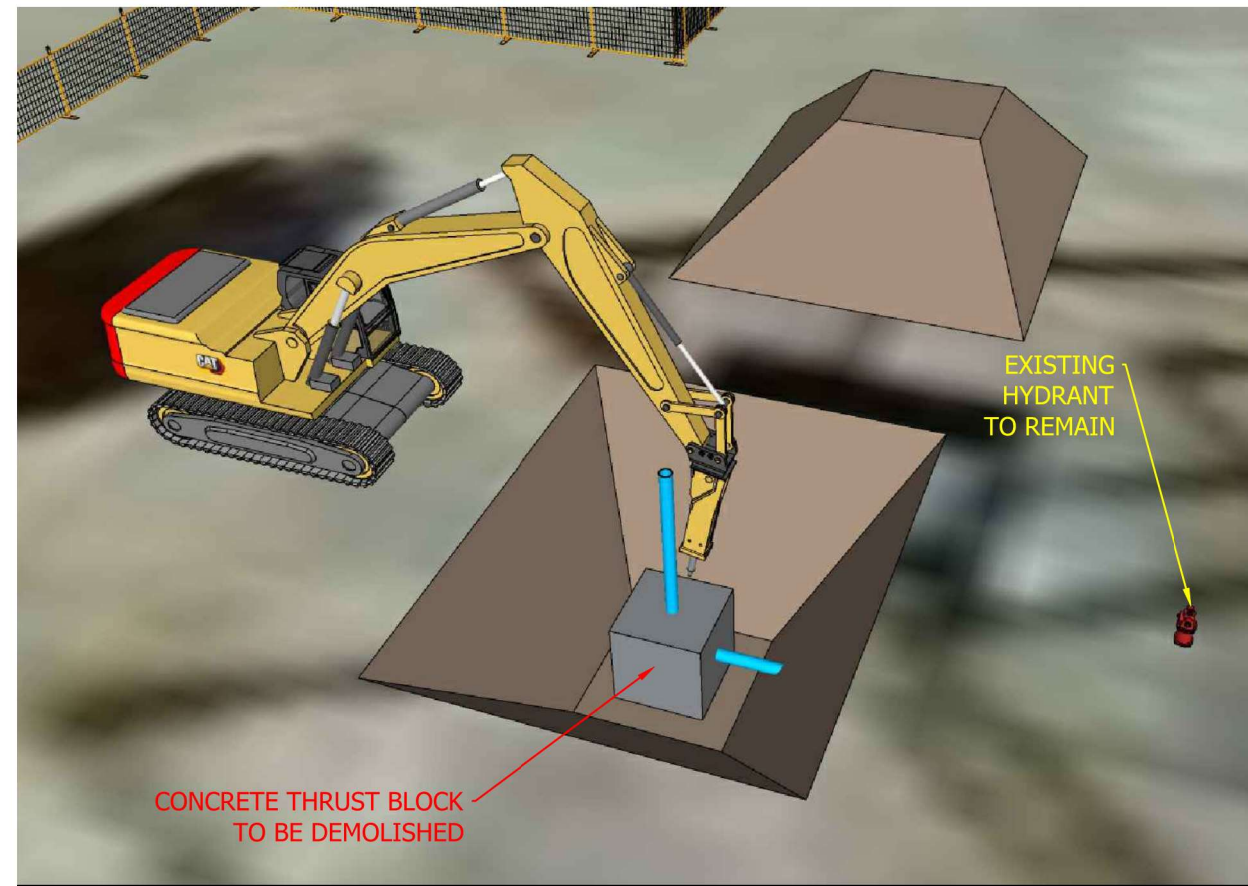


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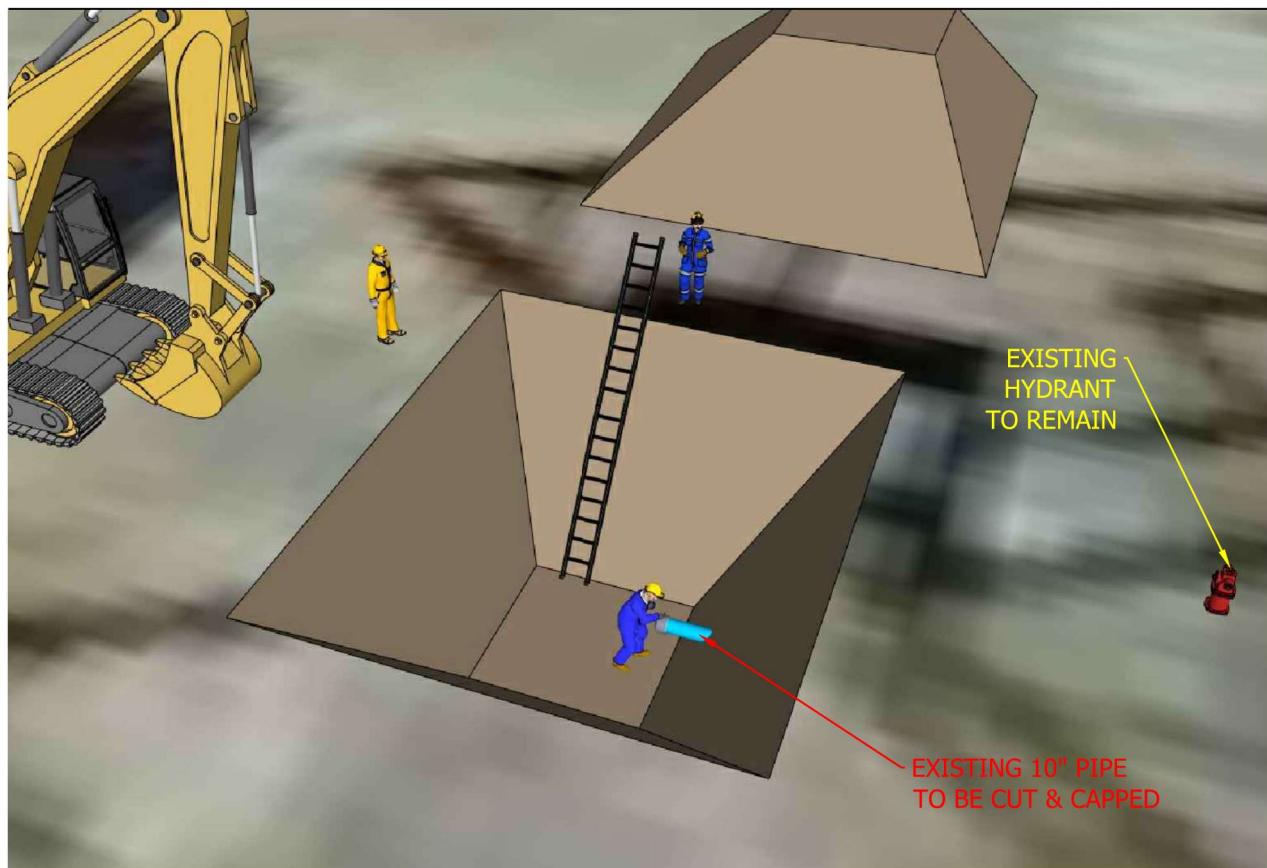
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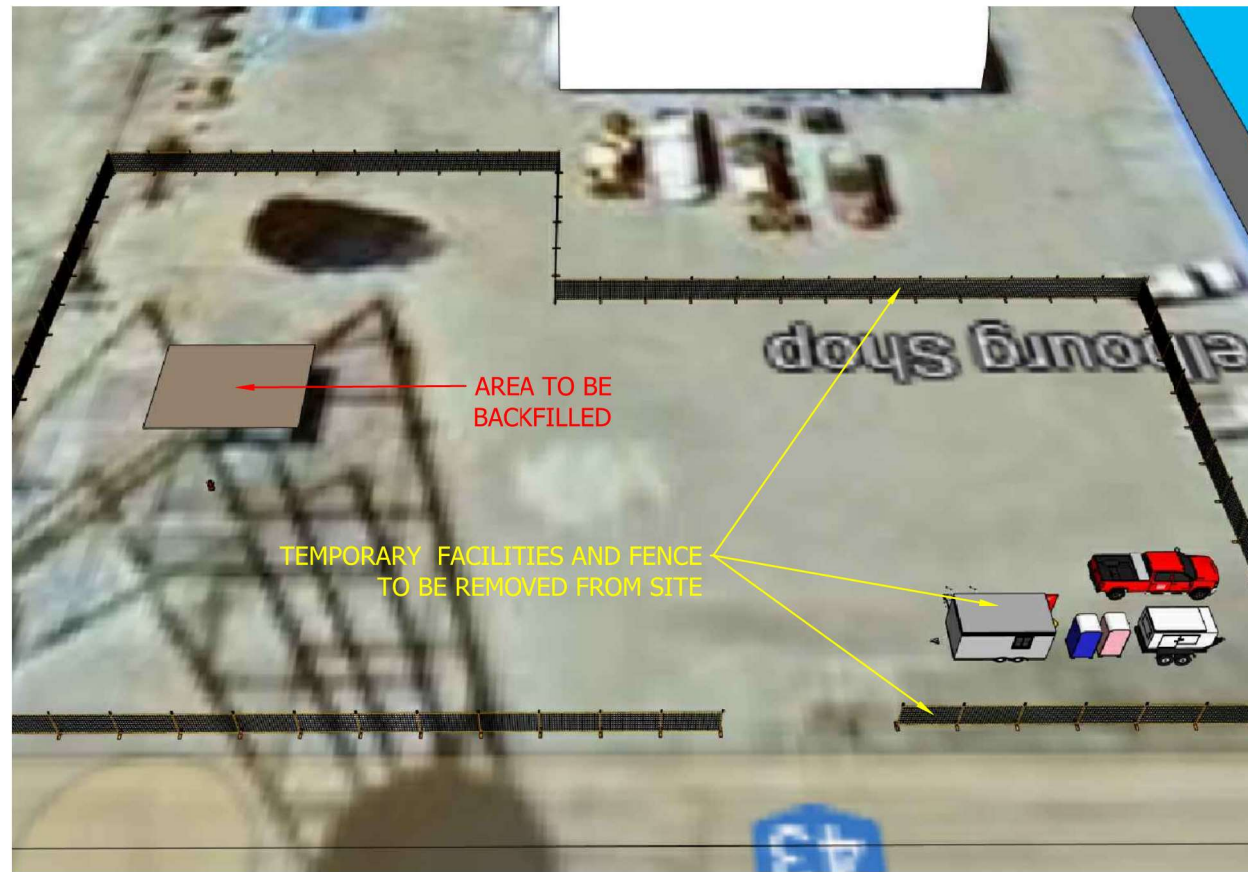
6 WATER TOWER SHACK DEMOLITION VIEW



7 CONCRETE THRUST BLOCK DEMOLITION VIEW



8 EX. PIPE CUT AND CAP DETAIL



9 BACKFILLED AREA VIEW



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