GENERAL CONSTRUCTION NOTES

<u>OVERALL:</u> APPROPRIATE UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO BREAKING GROUND FOR THE PURPOSE OF VERIFYING BY FIELD INSPECTION. THE EXACT LOCATION OF UNDERGROUND UTILITIES.

THE CONTRACTOR SHALL EXERCISE DUE CARE DURING CONSTRUCTION SO AS NOT TO DESTROY ANY TREES, PLANTS, SHRUBS OR STRUCTURES OUTSIDE OF THE INDICATED WORK LIMITS AND THOSE NOT SPECIFICALLY MARKED FOR REMOVAL OR RELOCATION WITHIN THE WORK LIMITS.

ALL MATERIALS AND CONSTRUCTION PROCEDURES SHALL BE IN ACCORDANCE WITH CITY OF MILFORD & "CONSTRUCTION AND MATERIAL SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION".

UNLESS OTHERWISE NOTED ALL CONSTRUCTION DETAILS SHALL CONFORM WITH THE CITY OF MILFORD & "STANDARD CONSTRUCTION DRAWINGS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION".

THE ENGINEER/SURVEYOR DOES NOT ASSUME ANY LIABILITY FOR THE LOCATION OF UTILITIES, INCLUDING INDIVIDUAL SERVICE LINES & PRIVATE MAINS NOT SHOWN ON PUBLIC RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXACTLY LOCATING AND PROTECTING ALL UTILITIES, BOTH ABOVE AND BELOW GROUND, THAT EXIST IN THE WORK AREA AND WHICH MAY COME IN CONFLICT WITH HIS OPERATIONS. ANY DAMAGE TO UTILITIES WHICH HAVE BEEN ACCURATELY LOCATED, WHICH IS CAUSED BY THE CONTRACTOR'S OPERATIONS. SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ASSISTANCE IN LOCATING UNDERGROUND UTILITIES CAN BE OBTAINED BY CONTACTING THE UTILITY COMPANIES AT THE LOCATIONS LISTED ON THIS PAGE. IF A DISCREPANCY IS FOUND TO EXIST. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

THE CONTRACTOR SHALL OBTAIN OR VERIFY THAT ALL PERMITS ARE OBTAINED.

THE CONTRACTOR SHALL VERIFY EXISTING SITE INFORMATION AND REQUIRED EARTHWORK.

ALL RECOMMENDATIONS IN THE GEOTECHNICAL REPORT SHALL BE FOLLOWED.

ALL PROPOSED SPOT ELEVATIONS ARE TO FINISHED GRADE.

UTILITY SPECIFICATION:

ALL STORM SEWER TO BE PRIVATE, MAINTAINED BY THE OWNER AND BE CORRUGATED POLYETHYLENE SMOOTH LINED PIPE, CONFORMING TO ODOT ITEM 707.33 OR PVC CORRUGATED SMOOTH INTERIOR PIPE, CONFORMING TO ODOT ITEM 707.42 AND INSTALLED PER ODOT ITEM 603.

STEPS SHALL BE REQUIRED IN ALL CATCH BASINS WHERE THE DEPTH EXCEEDS FOUR (4) FEET AND SHALL MEET THE REQUIREMENTS OF THE STATE OF OHIO STANDARD CONSTRUCTION DRAWING MH-1.

ALL CATCH BASINS, INLETS & MANHOLES IN PAVED AREAS SHALL BE SLOPED ACCORDINGLY WITH FINAL PAVEMENT SURFACE PER GRADING PLAN.

WATER MAIN TO BE DUCTILE IRON CLASS 53 (O.D.O.T. ITEM 748.01) OR PVC AWWA C900, (ODOT ITEM 748.02) UNLESS OTHERWISE NOTED. FIRE HYDRANTS TO BE "MUELLER" OR "KENNEDY" OR APPROVED EQUAL AS DIRECTED BY CITY OF MILFORD.

PROPERLY SIZED THRUST BLOCKS SHALL BE PROVIDED FOR WATER MAIN AT EVERY CHANGE IN DIRECTION SUCH THAT IS PROVIDES ADEQUATE RESISTANCE TO MAINTAIN THE INTEGRITY OF THE JOINTS. SEE DETAILS ON PLANS FOR BLOCKING DETAILS.

ALL SANITARY SEWER PIPE SHALL BE P.V.C., SDR 35, ASTM D-3034.

UTILITY TRENCH BACKFILL SHALL BE PER THE DETAILS SHOWN ON THE PLANS.

EROSION CONTROL:

ALL EROSION CONTROL MEASURES MUST BE IN PLACE PRIOR TO ANY STRIPPING OF VEGETATION OR EXCAVATION

EROSION CONTROL WILL BE ACCOMPLISHED BY STRATEGICALLY PLACING ROCK CHECK DAMS. MULCH. BERMS AND/OR SILT FENCES IN SWALES AND RUNOFF AREAS. SUCH ITEMS TO BE REPLACED AND EXPANDED AS NECESSARY TO AFFORD NECESSARY CONTROL.

SILT FENCES USED FOR EROSION AND SEDIMENT CONTROL ARE TO BE ENTRENCHED AT LEAST 6" INCHES BELOW GRADE, AND FOLDED ACCORDING TO THE DETAIL AS SHOWN.

ALL EROSION CONTROLS SHALL BE INSPECTED AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT PRODUCING GREATER THAN 1/2 INCH OF RAIN IN A 24 HOUR PERIOD. ALL EROSION CONTROLS MUST BE MAINTAINED DURING CONSTRUCTION BY REMOVING COMPACTED SILT AND SEDIMENT, AND REDISTRIBUTING IT AS IS APPROPRIATE. SEEDING AND MULCHING SHALL BE APPLIED IN ACCORDANCE WITH OHIO RAINWATER AND LAND DEVELOPMENT MANUAL TO ALL DISTURBED AREAS WITHIN 7 DAYS IF THE AREA IS AT FINAL GRADE OR IS TO REMAIN DORMANT FOR MORE THAN 14 DAYS.

ALL CATCH BASINS SHALL HAVE SEDIMENT INLET PROTECTION METHODS INSTALLED DURING CONSTRUCTION. USING THE DETAILS SHOWN ON THE PLAN.

FILL AREAS GRASS SEED MIXTURE:

1/2 # RED FESCUE PER 1,000 SQUARE FEET 1/4 # BLUEGRASS PER 1.000 SQUARE FEET

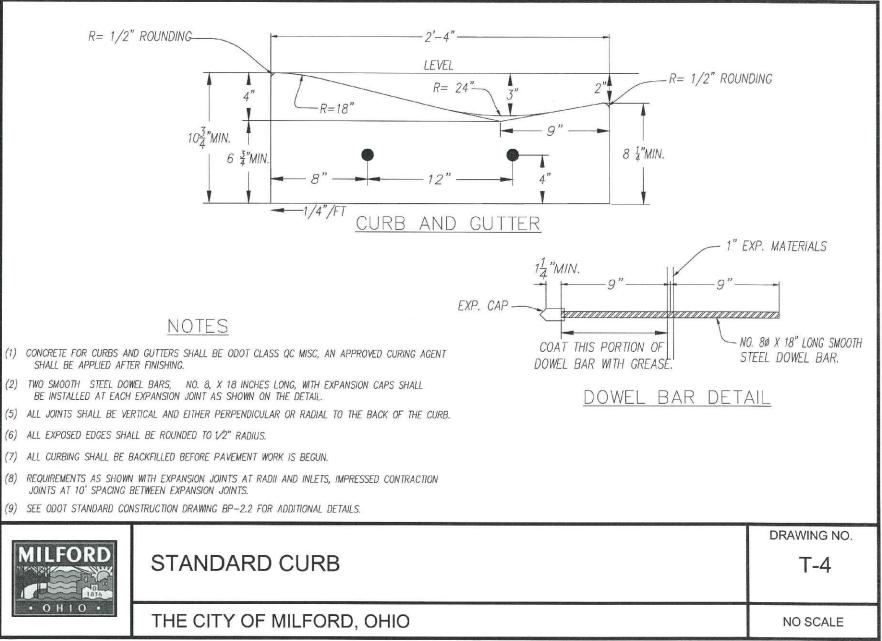
1/4 # DOMESTIC RYEGRASS PER 1,000 SQUARE FEET

2# PERENNIAL RYE PER 1,000 PER SQUARE FEET

FERTILIZE WITH 12# OF 10-10-10 PER 1,000 SQUARE FEET MULCH WITH 3 BALES OF STRAW PER 1,000 SQUARE FEET

AN ASPHALT MULCH TIE DOWN AT THE RATE OF 5 GALLONS PER 1,000 SQUARE FEET SHALL BE USED.

FINAL DEVELOPMENT PLAN QUEENS RIDGE @ MILFORD CITY OF MILFORD CLERMONT COUNTY, OHIO



CONDITIONS OF ORDINANCE 22-139 (R-3 SINGLE-FAMILY DISTRICT W/PD OVERLAY) 1. PROVIDE STORMWATER MAINTENANCE PLAN BEFORE APPROVAL OF FINAL PLAT.

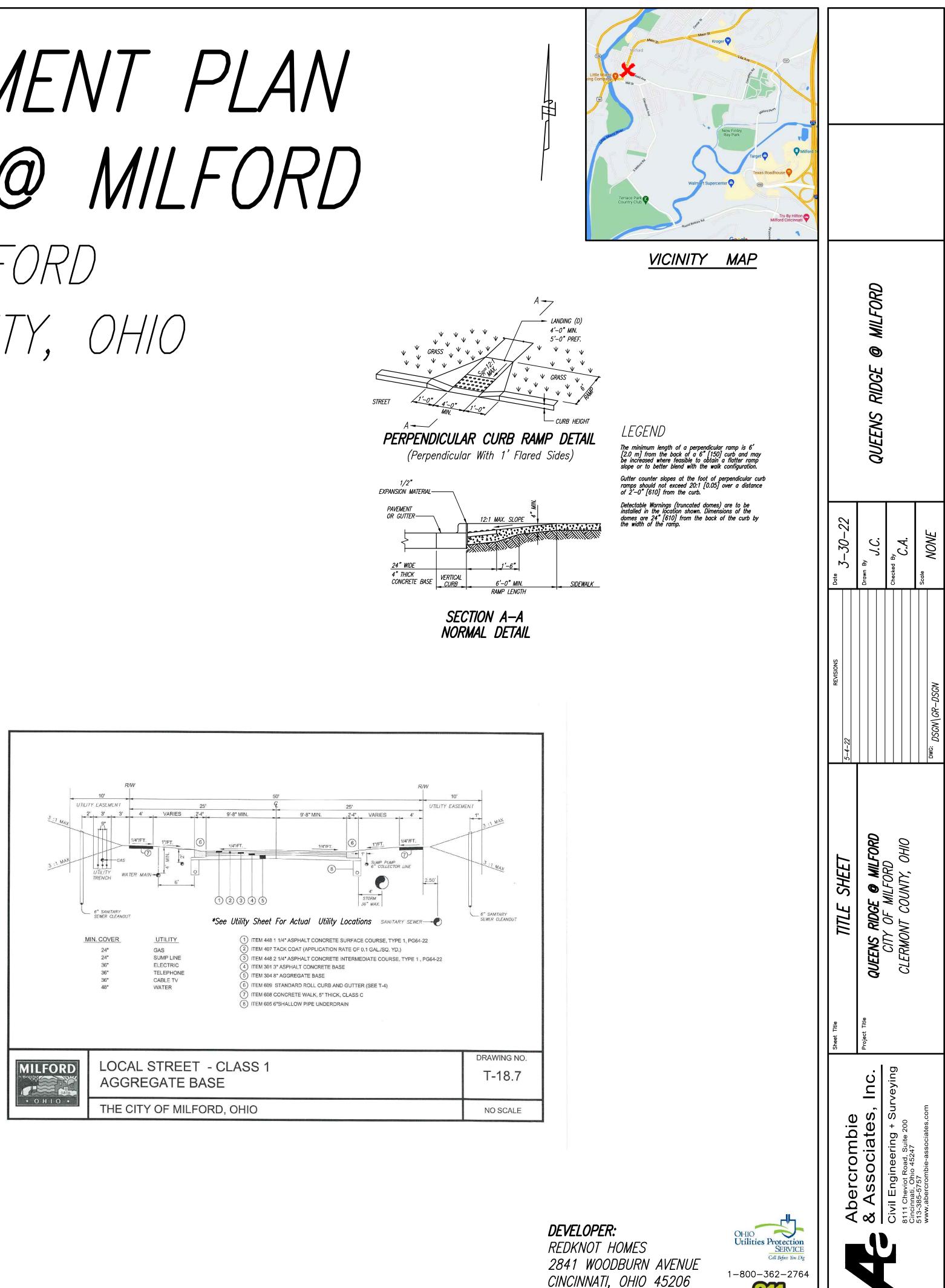
- 2. THE CITY'S EMERGENCY SERVICES DEPARTMENTS SHALL APPROVE THE PRIVATE DRIVE WIDTH AND CUL DE SAC MEASUREMENTS.
- 3. NO ON-STREET PARKING IS PERMITTED.
- 4. PROVIDE TRUCK TURNING TEMPLATE DRAWING. 5. ACCESS DRIVE IS TO BE MAINTAINED BY HOA.
- 6. THE WATER LINE SHOULD BE LOOPED TO HIGH STREET.
- 7. WATER AND SEWER LINES ALONG THE ACCESS DRIVE ARE TO BE MAINTAINED BY HOA.
- 8. BUILDING MATERIALS TO BE REVIEWED AND APPROVED BY PLANNING COMMISSION.
- 9. INSTALL SIDEWALKS (PER CITY SPECIFICATIONS) ALONG GARFIELD AVENUE AND HIGH STREET IN THE RIGHT OF WAY.
- 10. PROVIDE PLANNING COMMISSION WITH A COPY OF THE HOA'S COVENANTS AND RESTRICTIONS FOR REVIEW DURING THE FINAL PLAN REVIEW.
- 12. THE DEVELOPER TO PROVIDE A BEFORE DEVELOPMENT AND AFTER DEVELOPMENT IMPERVIOUS CALCULATION.
- 13. WMSC PERMIT REQUIRED BEFORE GRADING CAN BEGIN.
- 14. THE DEVELOPER MUST COMPLY WITH ALL BONDS AND SURETIES BEFORE FINAL PLAT APPROVAL.

<u>EARTHWORK INFORMATION (APPROXIMATE – BASED ON FINAL GRADING PLAN)</u> TOPSOIL STRIPPING = 1.982 CUBIC YARDS TOPSOIL REDISTRIBUTION = 1.982 CUBIC YARDS $EXCAVATION = 13,450 \ CUBIC \ YARDS$ EMBANKMENT = 5.500 CUBIC YARDS $HAUL-OFF = 7,950 \ CUBIC \ YARDS$

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11. THE COVENANTS AND RESTRICTIONS SHOULD BE RECORDED ALONG WITH THE FINAL DEVELOPMENT PLAN/PLAT IN THE OFFICE OF THE COUNTY RECORDER.

15. THE HOA WILL BE RESPONSIBLE FOR THE INSPECTION AND MAINTENANCE OF THE STORMWATER UNDERGROUND DETENTION AREA.



(513) 623–0971

Know what's below. **Call** before you dig

A) <u>STABILIZATION/NONSTRUCTURAL PRACTICES:</u> THE OPERATOR SHALL INSTALL ALL PERIMETER & EROSION CONTROL MEASURES POSSIBLE, BEFORE PROJECT BEGINS AND AS NEEDED DURING THE CONSTRUCTION PROCESS AND INITIATE APPROPRIATE VEGETATIVE PRACTICES ON ALL DISTURBED AREAS WITHIN SEVEN (7) DAYS IF THEY ARE TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN FOURTEEN (14) DAYS. FOR AREAS WITHIN FIFTY (50) FEET OF ANY STREAM, FIRST ORDER OR LARGER, SOIL STABILIZATION PRACTICES SHALL BE INITIATED WITHIN TWO (2) DAYS ON ALL INACTIVE, DISTURBED AREAS. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. WHEN SEASONAL CONDITIONS PROHIBIT THE APPLICATION OF TEMPORARY OR PERMANENT SEEDING, NON-VEGETATIVE SOIL STABILIZATION PRACTICES SUCH AS MULCHING AND MATTING SHALL BE USFD

B) <u>STRUCTURAL PRACTICES:</u> STRUCTURAL PRACTICES SHALL BE USED TO CONTROL EROSION AND TRAP SEDIMENT FROM ALL SITES REMAINING DISTURBED FOR MORE THAN FOURTEEN (14) DAYS. SUCH PRACTICES MAY INCLUDE AMONG OTHERS SEDIMENT TRAPS, SEDIMENT BASINS, SILT FENCES, EARTH DIVERSION DIKES, CHECK DAMS AND STORM DRAIN INLET PROTECTION.

C) THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY AN ON-SITE INSPECTION.

1. TIMING: SEDIMENT CONTROL STRUCTURES SHALL BE FUNCTIONAL THROUGHOUT EARTH DISTURBING ACTIVITY. SEDIMENT PONDS AND PERIMETER SEDIMENT BARRIERS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN SEVEN DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UP SLOPE DEVELOPMENT AREA IS DESTABILIZED.

2. SETTLING PONDS: CONCENTRATED STORM WATER RUNOFF FROM DISTURBED AREAS FLOWING AT RATES WHICH EXCEED THE DESIGN CAPACITY OF SEDIMENT FENCES OR DIVERSIONS DIRECTING RUNOFF TO SETTLING FACILITIES, SHALL PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM SEDIMENT TRANSPORTED BY SHEET FLOW.

3. <u>SEDIMENT BARRIERS</u>: SHEET FLOW RUNOFF FROM DENUDED AREAS SHALL BE INTERCEPTED BY SEDIMENT BARRIERS. SEDIMENT BARRIERS, SUCH AS SEDIMENT FENCES OF DIVERSIONS DIRECTING RUNOFF TO SETTLING FACILITIES, SHALL PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM SEDIMENT TRANSPORTED BY SHEET FLOW.

4. <u>STREAM PROTECTION:</u> STRUCTURAL PRACTICES SHALL BE DESIGNED AND IMPLEMENTED ON SITE TO PROTECT ALL ADJACENT STREAMS, FIRST ORDER AND LARGER, FROM THE IMPACTS OF SEDIMENT RUNOFF.

5. OTHER EROSION AND SEDIMENT CONTROL PRACTICES SHALL PREVENT SEDIMENT LADEN WATER FROM ENTERING STORM DRAIN SYSTEMS, UNLESS THE STORM DRAIN SYSTEM DRAINS TO A SETTLING POND. THESE PRACTICES SHALL DIVERT RUNOFF FROM DISTURBED AREAS AND STEEP SLOPES WHERE PRACTICABLE AND STABILIZE CHANNELS AND OUTFALLS FROM EROSIVE FLOWS.

MAINTENANCE ALL TEMPORARY AND PERMANENT CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. THE POLLUTION PREVENTION PLAN SHALL BE DESIGNED TO MINIMIZE MAINTENANCE REQUIREMENTS. THE APPLICANT SHALL PROVIDE A DESCRIPTION OF MAINTENANCE PROCEDURES NEEDED TO ASSURE THE CONTINUED PERFORMANCE OF CONTROL PRACTICES.

INSPECTIONS AT A MINIMUM, PROCEDURES IN A PLAN SHALL PROVIDE THAT ALL EROSIONS AND SEDIMENT CONTROLS ON THE SITE ARE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCH OF RAIN PER 24 HOUR PERIOD. IN ADDITION, QUALIFIED INSPECTION PERSONNEL (PROVIDED BY THE PERMITTEE) SHALL CONDUCT A WEEKLY INSPECTION OF THE CONSTRUCTION SITE TO IDENTIFY AREAS CONTRIBUTING TO STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AND EVALUATE WHETHER MEASURES TO PREVENT EROSION AND CONTROL POLLUTANT LOADINGS IDENTIFIED IN A STORM WATER POLLUTION PREVENTION PLAN ARE ADEQUATE AND PROPERLY IMPLEMENTED OR WHETHER ADDITIONAL CONTROL MEASURES ARE REQUIRED. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO THE RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE VEHICLE

THE PERMITTEE SHALL MAINTAIN FOR TWO (2) YEARS FOLLOWING THE SUBMITTAL OF THE N.O.T. A RECORD SUMMARIZING THE RESULTS OF THE INSPECTION. NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN AND A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE PLAN AND THE PERMIT AND IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.

TECHNICAL STANDARD AND SPECIFICATIONS CRITICAL AREA PLANTING - TEMPORARY SEEDING (TS)

THE ESTABLISHMENT OF A TEMPORARY VEGETATIVE COVER ON DISTURBED AREAS BY SEEDING WITH THE APPROPRIATE RAPID GROWING PLANTS.

1. TO REDUCE THE EROSION AND SEDIMENTATION BY STABILIZING DISTURBED AREAS WILL NOT BE BROUGHT TO FINAL GRADE FOR A YEAR OR LESS.

2. TO REDUCE PROBLEMS ASSOCIATED WITH MUD OR DUST FROM BARE SOIL SURFACES DURING CONSTRUCTION.

3. TO REDUCE SEDIMENT RUNOFF TO DOWNSTREAM AREAS AND IMPROVE THE VISUAL RESOURCES OF THE CONSTRUCTION AREA.

CONDITIONS WHERE PRACTICE APPLIES

ON EXPOSED SOIL SURFACES WHERE ADDITIONAL WORK (GRADING, ETC.) IS NOT SCHEDULED FOR A PERIOD OF THREE WEEKS TO LESS THAN ONE YEAR.

PLANNING CONSIDERATIONS

PURPOSES

1. PROTECT THE AREA FROM EXCESS RUNOFF AS NECESSARY WITH DIVERSIONS, TERRACES, OR SEDIMENT BASINS.

EVALUATE THE CAPABILITIES AND LIMITATIONS OF THE SOIL TO BE SEEDED SPECIAL ATTENTION NEEDS TO BE GIVEN TO SOIL pH, TEXTURE, INTERNAL WATER MOVEMENT, STEEPNESS, AND STABILITY IN ORDER TO PLAN THE APPROPRIATE TREATMENT.

4. FERTILIZER, LIME, SEEDBED PREPARATION, SEED COVERAGE, MULCH, AND IRRIGATION SHOULD BE USED AS NECESSARY TO <u>SPECIFICATIONS</u>

<u>I. SITE PREPARATION</u>

A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND ANCHORING.

B. INSTALL THE NEEDED EROSION CONTROL PRACTICES PRIOR TO SEEDING SUCH AS DIVERSIONS, TEMPORARY WATERWAYS FOR DIVERSIONS OUTLETS, AND SEDIMENT BASINS.

<u>II. SEEDBED PREPARATION</u>

LIME (IN LIEU OF A SOIL TEST RECOMMENDATION) ON ACID SOIL (pH 5.5 OR LOWER) AND SUBSOIL AT A RATE OF 100 POUNDS PER 1000 SQUARE FEET OR TWO TONS PER ACRE OF AGRICULTURAL GROUND LIMESTONE. FOR BEST RESULTS MAKE A SOIL TEST.

<u>FERTILIZER</u> (IN LIEU OF A SOIL TEST RECOMMENDATION) SHALL BE APPLIED AT A RATE OF 12-15 POUNDS PER 1000 SQUARE FEET OR 500-600 POUNDS PER ACRE OF 10-10-10 OR 12-12-12 ANALYSIS OR EQUIVALENT.

WORK THE LIME AND FERTILIZER INTO THE SOIL WITH A DISK HARROW, SPRINGTOOTH HARROW, OR SIMILAR TOOLS TO A DEPTH OF TWO INCHES. ON SLOPING AREAS THE FINAL OPERATION SHALL BE ON THE CONTOUR.

<u>III. SEEDING</u>

A. SPECIES SELECTION 1	PER 1000	
MARCH 1 TO AUGUST 15TH	SQUARE FEET	PER ACRE
1. OATS OR	3 LBS.	4 BU.
2. PERENNIAL RYEGRASS	1 LB.	40 LBS.
3. TALL FESCUE	1 <i>LB</i> .	40 LBS.
AUGUST 16 TO NOVEMBER 12		
1. RYE OR	3 LBS.	2 BU.
2. WHEAT OR	3 LBS.	2 BU.
3. PERENNIAL RYEGRASS	1 LB.	40 LBS.
4. TALL FESCUE	1 LB.	40 LBS.

OTHER SEED SPECIES MAY BE SUBSTITUTED CHECK WITH THE LOCAL SCS OFFICE FOR RECOMMENDATIONS.

2) AFTER NOVEMBER 1, USE MULCH ONLY. SEE STANDARD AND SPECIFICATIONS FOR MULCHING.

B. APPLY THE SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER, (SLURRY MAY INCLUDE SEED AND FERTILIZER) PREFERABLY ON A FIRM, MOIST SEEDBED. SEED WHEAT OR RYE NO DEEPER THAN ONE INCH. SEED RYEGRASS NO NO DEEPER THAN ONE-FOURTH INCH.

C. WHEN FEASIBLE, EXCEPT WHERE A CULTIPACKER TYPE SEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A CULTIPACKERM, ROLLER, OR LIGHT DRAG. ON SLOPING LAND SEEDING OPERATIONS SHOULD BE ON THE CONTOUR WHEREVER POSSIBLE.

<u>IV. MULCHING</u>

MULCHING SHALL BE APPLIED TO PROTECT THE SOIL AND PROVIDE A BETTER ENVIRONMENT FOR PLANT GROWTH.

MULCH SHALL CONSIST OF SMALL GRAIN STRAW (PREFERABLY WHEAT OR RYE) AND SHALL BE APPLIED AT THE RATE OF TWO TONS PER ACRE OR 100 POUNDS (TWO TO THREE BALES) PER 1000 SQUARE

SPREAD THE MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED.

D. MULCH ANCHORING METHODS:

1. <u>MECHANICAL</u> – USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO INTO THE SOIL.

2. <u>ASPHALT EMULSION</u> – APPLY AT THE RATE OF 160 GALLONS PER ACRE INTO THE MULCH AS IT IS BEING APPLIED.

3. <u>MULCH NETTINGS</u> - USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. USE IN AREAS OF WATER CONCENTRATION TO HOLD MULCH IN PLACE.

IRRIGATION IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH UNTIL THEY ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASONS, OR ON ADVERSE SITES.

TECHNICAL STANDARD AND SPECIFICATIONS

CRITICAL AREA PLANTING - PERMANENT SEEDING (PS) - DORMANT SEEDING (DS)

<u>Standard</u> **DEFINITION**

THE ESTABLISHMENT OF PERENNIAL VEGETATION ON DISTURBED AREAS BY PLANTING SEED.

<u>PURPOSES</u>

1. TO REDUCE THE EROSION AND DECREASE SEDIMENT YIELD FROM DISTURBED AREAS.

2. TO PERMANENTLY STABILIZE DISTURBED AREAS IN A MANNER THIS IS ECONOMICAL, ADAPTABLE TO SITE CONDITIONS, AND ALLOWS SELECTION OF THE MOST APPROPRIATE PLANT MATERIALS.

CONDITIONS WHERE PRACTICE APPLIES

DISTURBED AREAS WHERE PERMANENT, LONG LIVED VEGETATIVE COVER IS NEEDED TO STABILIZE THE SOIL.

ROUGH GRADED AREAS WHICH WILL NOT BE BROUGHT TO FINAL GRADE FOR SEVERAL MONTHS OR MORE.

<u>PLANNING CONSIDERATIONS</u>

PROTECT THE AREA FROM EXCESS RUNOFF AS NECESSARY WITH DIVERSIONS, GRASSED WATERWAYS, TERRACES, OR SEDIMENT BASINS.

EVALUATE THE CAPABILITIES AND LIMITATIONS OF THE SOIL TO BE SEEDED. SPECIAL ATTENTION NEEDS TO BE GIVEN TO SOIL pH, TEXTURE, INTERNAL WATER MOVEMENT, STEEPNESS, AND STABILITY IN ORDER TO PLAN THE APPROPRIATE TREATMENT.

PLANT SPECIES SHOULD BE SELECTED ON THE BASIS OF SOIL TYPE, PLANNED USE OF THE AREA, AND THE AMOUNT OR DEGREE OF MAINTENANCE THAT CAN BE DEVOTED TO THE AREA IN THE FUTURE.

4. FERTILIZER, LIME, SEEDBED PREPARATION, SEED COVERAGE, MULCH, AND IRRIGATION SHOULD BE USED AS NECESSARY TO PROMOTE QUICK PLANT GROWTH.

VEGETATION CANNOT NOT BE EXPECTED TO PROVIDE EROSION CONTROL COVER AND PREVENT SOIL SLIPPAGE ON A SOIL THAT IS NOT STABLE DUE TO ITS STRUCTURE, WATER MOVEMENT, OR EXCESSIVE SLOPE.

SILT AND CLAY TO PROVIDE AN ADEQUATE AMOUNT OF MOISTURE HOLDING CAPACITY. AN EXCESSIVE AMOUNT OF POROUS SAND WILL CONSISTENTLY PROVIDE SUFFICIENT MOISTURE FOR GOOD GROWTH GROWTH REGARDLESS OF OTHER SOIL FACTORS.

B. WHERE COMPACTED SOILS OCCUR. THEY SHOULD BE BROKEN UP SUFFICIENTLY TO CREATE A FAVORABLE ROOTING DEPTH OF 6-8 INCHES.

C. STOCKPILE TOPSOIL TO APPLY TO SITES THAT ARE OTHERWISE UNSUITED FOR ESTABLISHING VEGETATION.

D. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCHING APPLICATION AND ANCHORING, AND MAINTENANCE. AFTER THE GRADING OPERATION SPREAD TOPSOIL WHERE NEEDED.

E. INSTALL THE NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRASSED WATERWAYS, AND SEDIMENT BASINS.

II. SEEDBED PREPARATION

A. <u>LIME</u> (IN LIEU OF A SOIL TEST RECOMMENDATION) ON ACID SOIL AND SUBSOIL, 100 POUNDS PER 1000 SQUARE FEET OR TWO TONS PER ACRE OF AGRICULTURAL GROUND LIMESTONE. FOR BEST RESULTS MAKE A SOIL TEST.

B. <u>FERTILIZER</u> (IN LIEU OF A SOIL TEST RECOMMENDATION) APPLY 25 POUNDS PER 1000 SQUARE FEET OR 1000 POUNDS PER ACRE OF 10-10-10 OR 12-12-12 ANALYSIS. FOR BEST RESULTS MAKE A SOIL TEST.

C. WORK THE LIME AND FERTILIZER INTO THE SOIL WITH A DISK HARROW, SPRINGTOOTH HARROW, OR OTHER SUITABLE FIELD EQUIPMENT TO A DEPTH OF THREE INCHES. ON SLOPING LAND THE FINAL OPERATION SHALL BE ON THE CONTOUR.

III. SEEDING

A. SELECT A SPECIES OR MIXTURE APPROPRIATE FOR THE SITE. 1. PERMANENT SEEDING

<u>KIND OF SEED 1/</u>	<u>SEEDING</u> DATES 2/	<u>PER 1000</u> SQUARE
A. CREEPING RED FESCUE, PLUS	MARCH—MAY AUG.—SEPT.	1/2 LB. <u>3/</u>
DOMESTIC RYGRASS	AUU. 3277.	1/4 LB.
PLUS KENTUCKY BLUEGRASS		1/4 LB.
B. TALL FESCUE	MARCH—MAY AUG.—SEPT.	1 LB. <u>3/</u>
C. DWARF (TURF-TYPE) FESCUE <u>4/</u>	MARCH—MAY AUG.—SEPT.	1 LB <u>.3/</u>

2. SPECIAL SEEDINGS-STEEP BANKS OR CUTS

KIND OF SEED 1/	<u>seeding</u> <u>Dates 2/</u>	<u>PER 100</u> SQUARE	
TALL FESCUE	MARCH—MAY AUG.—SEPT.	1 LB.	
CROWNVETCH PLUS	MARCH—MAY AUG.—SEPT.	1/4 LB.	
. FLAT PEA PLUS <u>4/</u>	MARCH—MAY AUGUST	1/2 LB.	

TALL FESCUE 3. WATERWAYS AND ROAD DITCHES

A. TALL FESCUE MARCH—MAY 1 LB. OTHER SEED SPECIES MAY BE SUBSTITUTED FOR THESE MIXTURES. CHECK WITH

LOCAL SCS OFFICE FOR RECOMMENDATIONS. THESE SEEDING DATES ARE IDEAL. WITH THE USE OF MULCH AND IRRIGATION, SEEDINGS COULD BE MADE ANY TIME THROUGHOUT

THE SEEDING RATES NEED TO BE INCREASED TWO TO THREE TIMES IF THE MIXTURE IS TO BE USED AS A LAWN.

4) THE DWARF OR TURF-TYPE FESCUES ARE MUCH SHORTER AND HAVE FINER LEAVES THAN THE TALL FESCUES. IT IS MUCH BETTER SUITED FOR LAWN-TYPE AREAS THAN TALL FESCUES.

B. DORMANT SEEDING

THE GROWING SEASON.

SEEDINGS SHOULD NOT BE PLANTED FROM OCTOBER 1 THROUGH NOVEMBER 20. DURING THIS PERIOD THE SEEDS ARE LIKELY TO GERMINATE BUT PROBABLY WILL NOT BE ABLE TO SURVIVE THE WINTER.

THE FOLLOWING METHODS MAY BE USED TO MAKE A "DORMANT SEEDING":

1. FROM OCTOBER 1 THROUGH NOVEMBER 20, PREPARE THE SEEDBED, ADD THE REQUIRED AMOUNTS OF LIME AND FERTILIZER THEN MULCH AND ANCHOR. AFTER NOVEMBER 20. AND BEFORE MARCH 15, THE SELECTED SEED MIXTURE. INCREASE THE SEEDING RATES BY SEED MIXTURE. INCREASE THE SEEDING RATES BY 50 PERCENT FOR THIS TYPE SEEDING.

2. FROM NOVEMBER 20 THROUGH MARCH 15, WHEN SOIL CONDITIONS PERMIT, PREPARE THE SEEDBED, LIME AND FERTILIZE, APPLY THE SELECTED SEED MIXTURE, AND MULCH AND ANCHOR. INCREASE THE SEEDING RATES BY XXX 50 PERCENT FOR THIS TYPE OF SEEDING.

C. APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER (SLURRY MAY INCLUDE SEED AND FERTILIZER) ON A FIRM, MOIST SEEDBED. COVER TO A DEPTH OF 1/4 TO 1/2 INCH.

D. WHERE FEASIBLE, EXCEPT WHEN A CULTIPACKER TYPE SEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A CULTIPACKER, ROLLER, OR LIGHT DRAG. ON SLOPING LAND SEEDING OPERATION'S SHOULD BE ON THE CONTOUR WHERE FEASIBLE.

<u>IV. MULCHING</u>

A. MULCH SHALL BE APPLIED TO PROTECT THE SOIL AND PROVIDE A BETTER ENVIRONMENT FOR PLANT GROWTH.

B. MULCH SHALL CONSIST OF SMALL GRAIN STRAW (PREFERABLY WHEAT OR RYE) AND SHALL BE APPLIED AT THE RATE OF TWO TONS PER ACRE OR 100 POUNDS (TWO TO THREE BALES) PER 1000 SQUARE FEET.

C. SPREAD THE MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED.

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CREEPING RED 10-10-10 500 ESCUE RYEGRASS KENTUCKY BLUEGRASS TALL FESCUE 10–10–10 500 DWARF TURF 10–10–10 500 FLAT PEA AND 0–20–20 400 CROWNVFTCH WITH FESCUE

VEGETATIVE EROSION CONTROL COVER.

SEEDING RECOMMENDATIONS, AND MULCHING RECOMMENDATIONS. TABLE 1 MAINTENANCE FERTILIZATION AND MOWING FOR PERMANENT SEEDING FERTILIZER RATE MIXTURE FORMULA LBS.AC. LBS./1000 TIME 12 12

Stormwater Best Management Practice: Concrete Washout

2. ASPHALT EMULSION – APPLY AT A RATE OF 160 GALLONS

RECOMMENDATIONS. USE IN AREAS OF WATER CONCENTRATION TO HOLD

MAINTENANCE IS A VITAL FACTOR IN MAINTAINING AN ADEQUATE

2) IF STAND IS OVER 60 PERCENT DAMAGED, REESTABLISH

FOLLOWING ORIGINAL LIME, FERTILIZER, SEEDBED PREPARATION,

3. MULCH NETTINGS - USE ACCORDING TO THE MANUFACTURER'S

PER ACRE INTO THE MULCH AS IT IS BEING APPLIED.

MULCH IN PLACE.

<u>V. MAINTENANCE</u>

10

NOT CLOSER YEARLY THAN . FALL, YEARLY NOT CLOSER THAN 4 FALL, YEARLY NOT CLOSER THAN 2 DO NOT MOW SPRING YFARI Y FOLLOWING ESTABLISHMENT

AND FVFRY 4-7

YEARS THEREAFTER

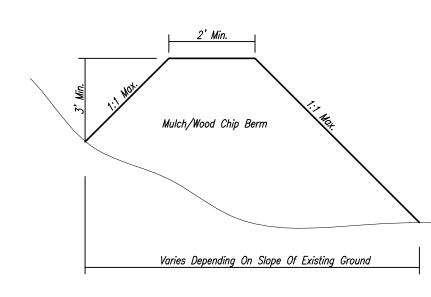
MOWING

i. When practices require repair or maintenance. If an inspection reveals that a CONTROL PRACTICE IS IN NEED OF REPAIR OR MAINTENANCE. WITH THE EXCEPTION OF A SEDIMENT SETTLING POND IT MUST BE REPAIRED OR MAINTAINED WITHIN THREE DAYS OF INSPECTION. SEDIMENT SETTLING PONDS MUST BE REPAIRED OR MAINTAINED WITHIN TEN DAYS OF THE INSPECTION.

ii. When practices fail to provide their intended function. If the inspection REVEALS THAT A CONTROL PRACTICE FAILS TO PERFORM ITS INTENDED FUNCTION AND THAT ANOTHER, MORE APPROPRIATE CONTROL PRACTICE IS REQUIRED, THE SWP3 SHALL BE AMENDED AND THE NEW CONTROL PRACTICE SHALL BE INSTALLED WITHIN TEN DAYS OF THE INSPECTION.

iii. When practices depicted on the swp3 are not installed. If the inspection REVEALS THAT A CONTROL PRACTICE HAS NOT BEEN IMPLEMENTED IN ACCORDANCE WITH THE SCHEDULE CONTAINED IN PART III.G.1.g OF THE OHIO EPA GENERAL PERMIT, THE CONTROL PRACTICE SHALL BE IMPLEMENTED WITHIN 10 DAYS FROM THE DATE OF THE INSPECTION. IF THE INSPECTION REVEALS THAT THE PLANNED CONTROL PRACTICE IS NOT NEEDED, THE RECORD MUST CONTAIN A STATEMENT OF EXPLANATION AS TO WHY THE CONTROL PRACTICE IS NOT NEEDED.

MULCH BERM DETAIL



<u>FT. PER ACRE</u>

20 LBS. 10 LBS. 10 LBS.

40 LBS

40 LBS. <u>3/</u>

<u>FT. PER ACRE</u>

40 LBS.

10 LBS.

20 LBS.

40 LBS.

collecting, retaining, and recycling the washwater and solids from washing down mixed truck chutes and pump truck hoppers at construction sites. Chute washout box A chute washout box is mounted on the back of the ready mixed truck. If the truck has three chutes, the following

Different types of washout containers are available for

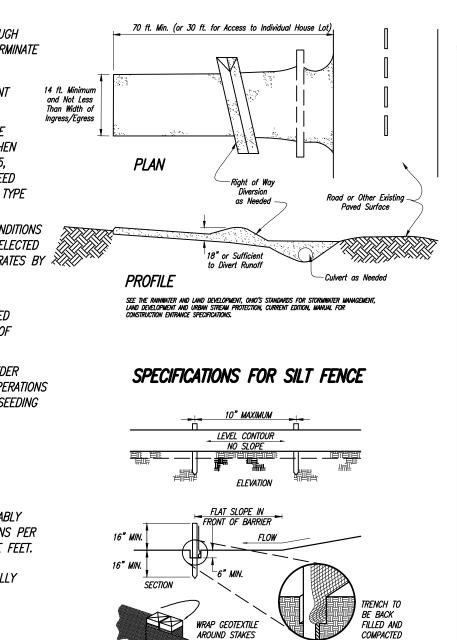
Washout Containers

Atter the wash down,

ant for recycling. A filter sket near the top of the ashoul box separates ou carse aggregales so can be placed in a for reuse either at the instruction site or back at Figure 7. Chute weshout box the cement plant.

Chute washout bucket and pump After delivering ready mixed concrete and scraping the last of the customer's concrete down the chute, the driver hangs a washout bucket shown in Figure 8 (see red arrow) on the end of the truck's chute and secures the hose to insure no leaks. The

CONSTRUCTION ENTRANCE DETAIL



SEE THE RAINWATER AND LAND DEVELOPMENT, OHIO'S STANDARD. FOR STORMWATER MANAGEMENT, LAND DEVELOPMENT AND URBAN STREAM PROTECTION MANUAL, CURRENT EDITION, FOR SILT FENCE

JOINING SECTIONS OF SILT FENCE

SPECIFICATIONS.



driver then washes down

the chute into the bucket to

Hay bale and plastic washout pit A washout pit made with hay bales and a plastic lining is shown in Figure 9. Such pits can be dug into the ground or built above. grade. The plastic lining should be free of tears or holes that would allow the washwater to escape (Fig. 10). After the pit is used to wash down the chutes of multiple ready mixed truck procedure is used to perform the washout from the top down: 👘 and the washwater has evaporated or has been vacuumed off, (1) after the pour is completed, the driver attaches the extension the remaining hardened solids can be broken up and remove chute to the washout box, (2) the driver then rotates the main from the pit. This process may damage the hay bales and chute over the extension chute (Fig. /) and washes down the plastic lining. If damage occurs, the pit will need to be repaired hopper lirst then the main chule, (3) finally the driver washes and relined with new plastic. When the hardened solids are down the flop down chute and last the extension chute hanging removed, they may be bound up with the plastic lining and have on the box. All washwater and solids are captured in the box. to be sent to a landfill, rather than recycled. Recyclers usually accept only unmixed material. If the pit is going to be emptied astiwater and solids are and repaired more than a few times, the hay bales and plastic urned to the ready mixed — will be generating additional solid waste. Ready mixed concrete



OT Non-Woven Bag

their being washed out into bale-lined pits. Vinyl washout container

Stormwater Best Management Practice: Concrete Washout

The vinyl washout ontainer (Fig. 11) is: ortable, reusable, and asier to install than a ay bale washout pit he biodearadable filter -igure 11. Vinglavesbout (al worde bag (Fig. 12) assists in extracting the concrete solids and prolongs the life of the vinyl

container. When the bag is lifted, the water is filtered out and the remaining concrete solids and the bag can be disposed of together in a landfill, or the hardened concrete can be delivered to a recycler. After the solids have been removed several times and the container is full of washwater, the washwater can be allowed to evaporate, so the container can be reused. The washwater can be removed more quickly by placing another filter bag in the container

and spreading water gelling granules evenly across the water. In about five minutes the water in the filter bag will turn into a gel that can be removed with the bag. Then the get and filter bag can be disposed to logether. Metal washout container

The metal roll-off bin (Fig. 13) is designed to securely contain concrete washwater and solids and is portable and reusable. It also has a ramp that allows concrete pump trucks to wash out their hoppers (Fig. 14). Roll-off providers offer recycling services, such as, picking up the roll-off bins after the washwater has evaporated and the solids have hardened. replacing them with mpty washout bins, an delivering the hardened concrete to a recycler

(Fig. 15), rather than a landfill. Some providers will vacuum off the washwater. Ireal if to remove metals an reduce the pl L deliver it to a wastewater treatment plant for additional treatment and Figure 13. Missi



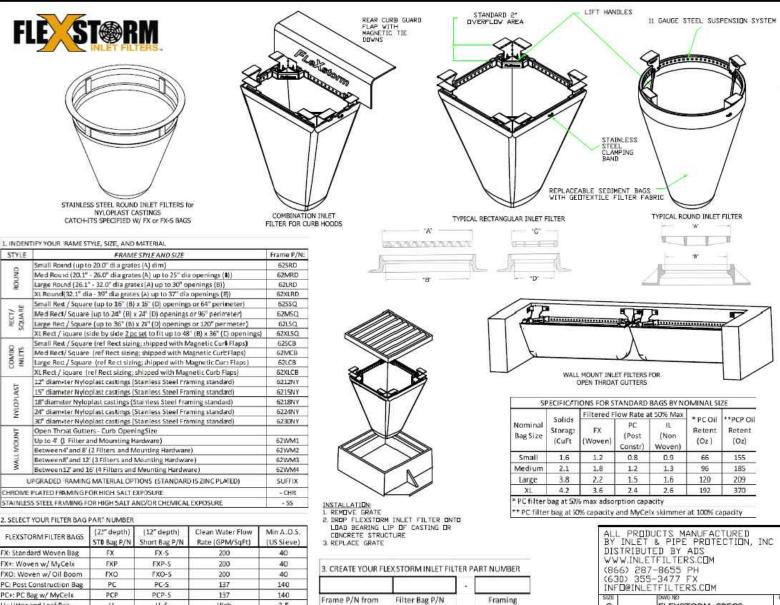












Frame P/N from Filter Bag P/N

from Step 2.

Step 1.

Framing

Material

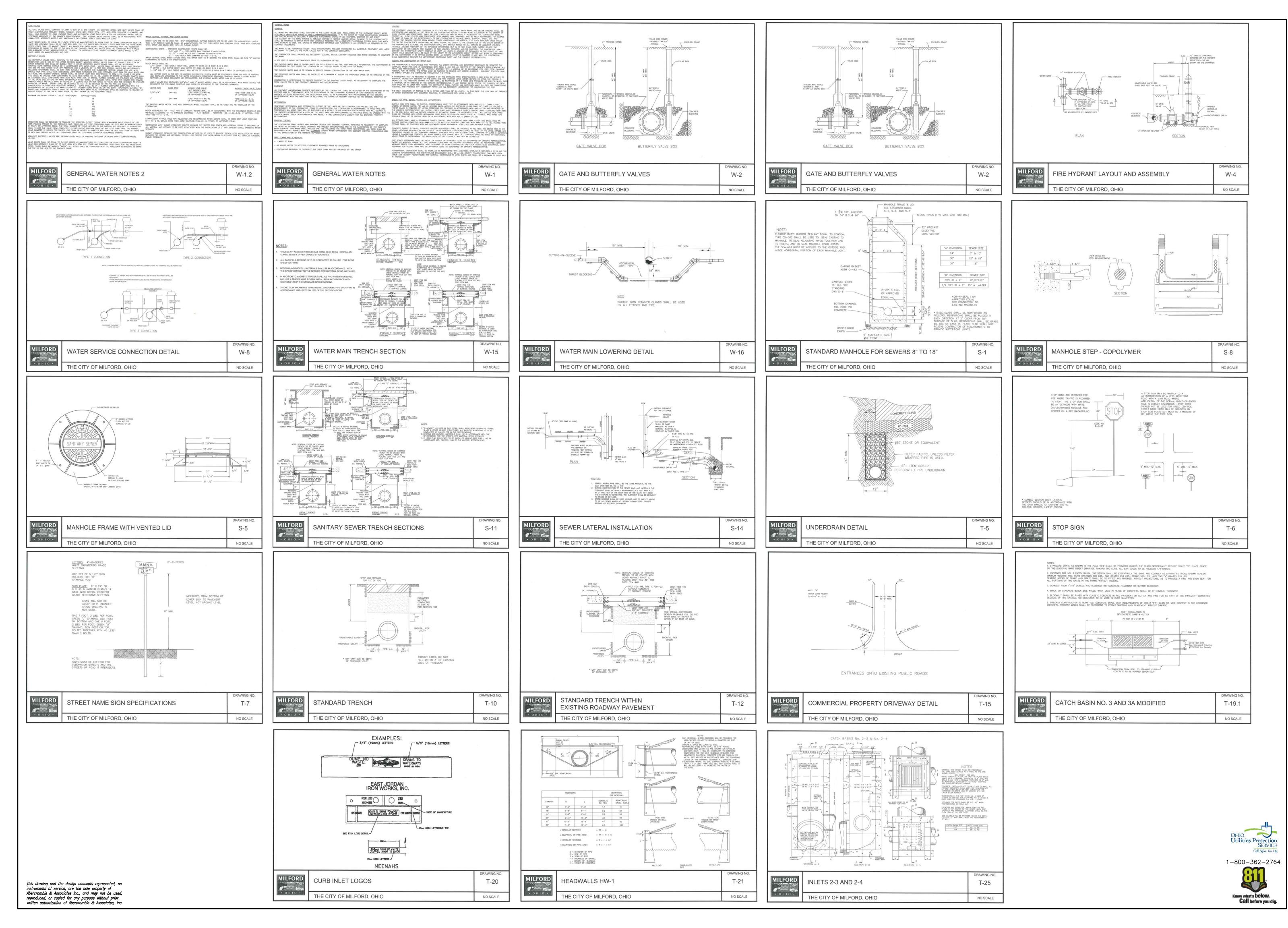
FLEXSTORM_SPECS

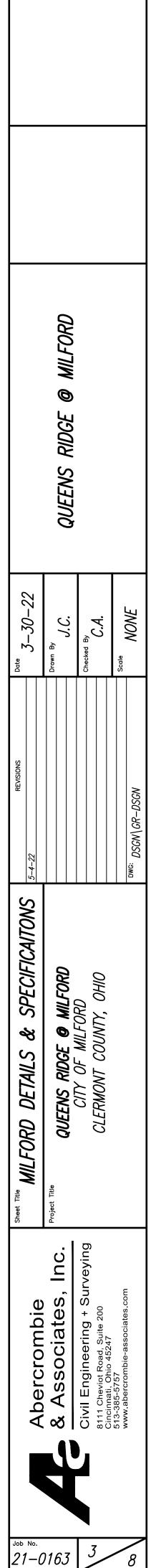
The Develo Inspections	O NTROL INSPECTION NOTE: OPER AND/OR CONTRACTOR SHALL CONDUCT AND DOCUMENT WEL S OR AFTER EACH 0.25" OR GREATER RAIN EVENT. THE INSPECT RS AFTER THE NOTICE OF TERMINATION HAS BEEN FILED WITH OF	ION REPORTS SHALL BE KEPT FOR	
THE CONTRA STREET SWE	I <mark>ON ENTRANCE AND STREET SWEEPING NOTE:</mark> ACTOR SHALL TOP-DRESS THE CONSTRUCTION ENTRANCE ON A I EEPING AS NEEDED. THE CONTRACTOR SHALL NOT CREATE A PUE	BLIC SAFETY PROBLEM BY TRACKING	
А.		esign, install and maintain effective erosion controls and	
		MINIMUM, SUCH CONTROLS SHALL BE INSTALLED AND MAINTAINED TO	0:
	CONTROL STORM WATER VOLUME AND VELOCITY WITHIN THE SITE		ит.
	CONTROL STORM WATER DISCHARGES, INCLUDING BOTH FEAK FL IND TO MINIMIZE DOWNSTREAM CHANNEL AND STREAMBANK EROS	OWRATES AND TOTAL STORM WATER VOLUME, TO MINIMIZE EROSION . ION;	AI
3.	MINIMIZE THE AMOUNT OF SOIL EXPOSED DURING CONSTRUCTION	N ACTIVITY;	
4.	MINIMIZE THE DISTURBANCE OF STEEP SLOPES;		
ADDRESS I		NSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTRO IRATION OF PRECIPITATION, THE NATURE OF RESULTING STORM WATEI ES EXPECTED TO BE PRESENT ON THE SITE;	
6.	MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE	TOPSOIL.	
	SOIL STABILIZATION. STABILIZATION OF DISTURBED AREAS SHALL, IN THE FOLLOWING TABLES.	AT A MINIMUM, BE INITIATED IN ACCORDANCE WITH THE TIME FRAME	55
	TABLE 1: PERMANENT	STABILIZATION	
	AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS	RB
	ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE	ILFORD
	ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE	
	ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA	
	TABLE 2: TEMPORARY	SIABILIZATION	
	AREA REQUIRING TEMPORARY STABILIZATION ANY DISTURBED AREAS WITHIN 50 FEET OF A SURFACE	TIME FRAME TO APPLY EROSION CONTROLS WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF	<i>K</i>
	WATER OF THE STATE AND NOT AT FINAL GRADE	THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS	S I
	FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTRUCBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL	QUEENS RIDGE
		LOT(S) PRIOR TO THE ONSET OF WINTER WEATHER	
		TABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATI	ov I
-	S MUST BE EMPLOYED. PERMANENT AND TEMPORARY STABILIZATIO		
	DEWATERING. DISCHARGES FROM DEWATERING ACTIVITIES, INCLU IBITED UNLESS MANAGED BY APPROPRIATE CONTROLS.	DING DISCHARGES FROM DEWATERING OF TRENCHES AND EXCAVATION	^{vo,}
	POLLUTION PREVENTION MEASURES. INSTALL, IMPLEMENT AND I OF POLLUTANTS. AT A MINIMUM, SUCH MEASURES MUST BE IN:	MAINTAIN EFFECTIVE POLLUTION PREVENTION MEASURES TO MINIMIZE	
		STALLED, IMPLEMENTED AND MAINTAINED TO: D VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATER:	
		d vehicle washing, wheel wash water, and other wash water. DL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DIS	
		ODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FER IALS PRESENT ON THE SITE TO PRECIPITATION AND TO STORM WATEI	
••		AKS AND IMPLEMENT CHEMICAL SPILL AND LEAK PREVENTION AND R	RESPONSE
PROCEDUR. F			
	PROHIBITED DISCHARGES. THE FOLLOWING DISCHARGES ARE PRO		L L L L L L L L L L L L L L L L L L L
	WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED	by an appropriate control; , FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCT	
z. MATERIALS;			
3.	FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQ	UIPMENT OPERATION AND MAINTENANCE; AND	
4.	SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHIN	<i>IG</i> .	
д. <u>ОП</u>	HER CONTROLS.		
i. NO	W-SEDIMENT POLLUTANT CONTROLS. NO SOLID (OTHER THAN S SCHARGED IN STORM WATER RUNOFF. THE PERMITTEE MUST IMPL	EDIMENT) OR LIQUID WASTE, INCLUDING BUILDING MATERIALS, SHALL EMENT ALL NECESSARY BMPS TO PREVENT THE DISCHARGE OF	<i>⊪</i> <i>S</i> 7
NO WA	N-SEDIMENT POLLUTANTS TO THE DRAINAGE SYSTEM OF THE SIT STEWATER FROM THE WASHOUT OF CONCRETE TRUCKS, STUCCO,	E OR SURFACE WATERS OF THE STATE. UNDER NO CIRCUMSTANCE PAINT, FORM RELEASE OILS, CURING COMPOUNDS, AND OTHER	
CO. NO	NSTRUCTION MATERIALS BE DISCHARGED DIRECTLY INTO A DRAIN O POLLUTANTS FROM VEHICLE FUEL, OILS, OR OTHER VEHICLE FL	AGE CHANNEL, STORM SEWER OR SURFACE WATERS OF THE STATE. UIDS CAN BE DISCHARGED TO SURFACE WATERS OF THE STATE. NO	
	'POSURE OF STORM WATER TO WASTE MATERIALS IS RECOMMENDI 'SPOND TO CHEMICAL SPILLS AND LEAKS.	ED. THE CONTRACTOR SHALL IMPLEMENT MEASURES TO PREVENT AND	
IMF	PLEMENT METHODS TO MINIMIZE THE DISCHARGE OF POLLUTANTS	ND DUST GENERATION SHALL BE MINIMIZED. THE CONTRACTOR SHAL FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND	
CO	NTROL THAT PROVIDES EQUIVALENT TREATMENT PRIOR TO DISCHA	5. WASH WATERS SHALL BE TREATED IN A SEDIMENT BASIN OR ALTE. IRGE. IBID DISCHARGES TO SURFACE WATERS OF THE STATE RESULTING FR	FOR NO.
DE	WATERING ACTIVITIES. IF TRENCH OR GROUND WATER CONTAINS S	bid discharges to surface waters of the state resulting fr Sediment, it shall pass through a sediment settling pond or Discharged from the construction site. Alternatively, sedimen	
BE DO	REMOVED BY SETTLING IN PLACE OR BY DEWATERING INTO A S DES NOT CONTAIN SEDIMENT OR OTHER POLLUTANTS IS NOT REQ	UMP PIT, FILTER BAG OR COMPARABLE PRACTICE. GROUND WATER W UIRED TO BE TREATED PRIOR TO DISCHARGE. HOWEVER, CARE MUS	
TAK		ES NOT BECOME POLLUTANT- LADEN BY TRAVERSING OVER DISTURB	BED SOILS S S > S
OP	PERATORS SHALL BE AWARE THAT CONCENTRATIONS OF MATERIALS	OCCUR ON SITES WITH CONTAMINATION FROM PREVIOUS ACTIVITIES, THAT MEET OTHER CRITERIA (IS NOT CONSIDERED A HAZARDOUS W ER DISCHARGES IN EXCESS OF OHIO WATER QUALITY STANDARDS. S	
	LETING VAP STANDARDS, ETC.) MAY STILL RESULT IN STORM WATE SCHARGES ARE NOT AUTHORIZED BY THIS PERMIT. APPROPRIATE THE USE OF BERMS, TRENCHES, AND PITS TO COLL	BMPS INCLUDE, BUT ARE NOT LIMITED TO:	CLL CLE SUCH CLE
		RIOR APPROVAL OF THE SANITARY SEWER OPERATOR) OR INTO A	
		r other methods that prevent storm water from coming into	
	CONTACT WITH THE MATERIAL.		
		CTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ENSUR ONTROL PRACTICES MUST BE MAINTAINED IN A FUNCTIONAL CONDITIC	
С.	IINSPECTIONS. AT A MINIMUM, ALL EROSION AND SEDIMENT PO	llution controls on the site shall be inspected by the own	
STORM EVI	ENT GREATER THAN ONE-HALF $\binom{1}{2}$ INCH OF RAIN PER 24-HOUR	NDAR DAYS AND BY THE END OF THE NEXT CALENDAR DAY AFTER , PPERIOD, EXCLUDING WEEKENDS AND HOLIDAYS UNLESS WORK IS	
SCHEDULEL THESE INSI	d. A Record shall be made of each inspection. The own Pections to ensure that the erosion and sediment contra	NER SHALL ASSIGN QUALIFIED INSPECTION PERSONNEL TO CONDUCT OLS ARE ADEQUATE AND PROPERLY IMPLEMENTED OR CONSTRUCTED	ssocial strain and and and and and and and and and an
REQUIRED.	THE QUALIFIED INSPECTION PERSONNEL SHALL RECORD AND R	E WHETHER OTHER EROSION AND SEDIMENT POLLUTION CONTROLS AN PEPORT ISSUES AND DEFICIENCIES ASSOCIATED WITH THE EROSION AN PULVE NECESSARY CHANCES TO THE LOCATION AND POSITION EACH	(0) GAN WAR PECTOMDIC SSOCIATES, Engineering + Su eviot Road, Suite 200 ati, Ohio 45247 ercrombie-associates.com
EROSION A		RMINE NECESSARY CHANGES TO THE LOCATION AND POSITION EACH CTION REPORT SHOULD INCLUDE ITEMS AS LISTED UNDER ITEM 314	L (0) L (1) L
AT A MINIM	IUM, THE INSPECTION REPORT SHALL INCLUDE:		berting a first the state of th
ii. N iii. W	HE INSPECTION DATE; IAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE VEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPEC	TION (OR SINCE COMMENCEMENT OF	→ A A Civil Civil Civil Civil
C S	CONSTRUCTION ACTIVITY IF THE FIRST INSPECTION) INCLUDING A STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE .	BEST ESTIMATE OF THE BEGINNING OF EACH AMOUNT OF RAINFALL FOR EACH STORM EVENT OHIO	
()	IN INCHES), AND WHETHER ANY DISCHARGES OCCURRED; VEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES	Utilities Prot	ERVICE
	NSPECTION;		fore You Dig

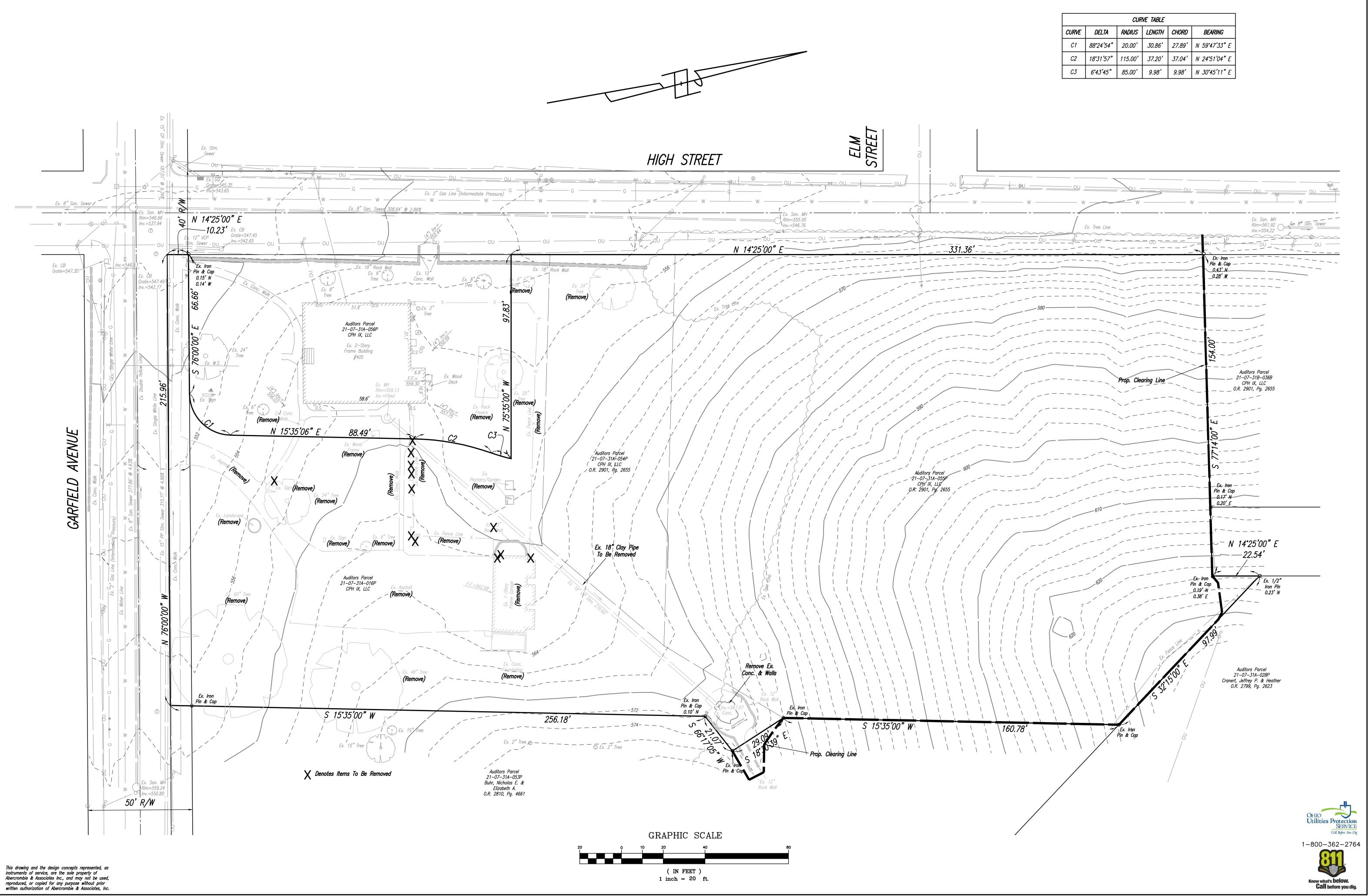
- LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE; LOCATION(S) OF BMPs THAT NEED TO BE MAINTAINED;
- LOCATION(S) OF BMPs THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR PARTICULAR LOCATION
- viii. LOCATION(S) WHERE ADDITIONAL BMPs ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TOT HE SWP3 NECESSARY AND IMPLEMENTATION



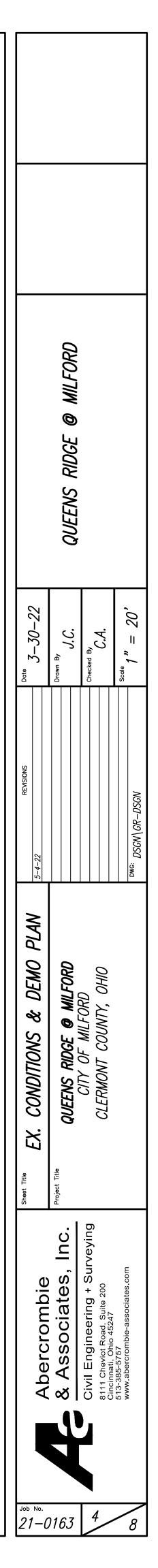
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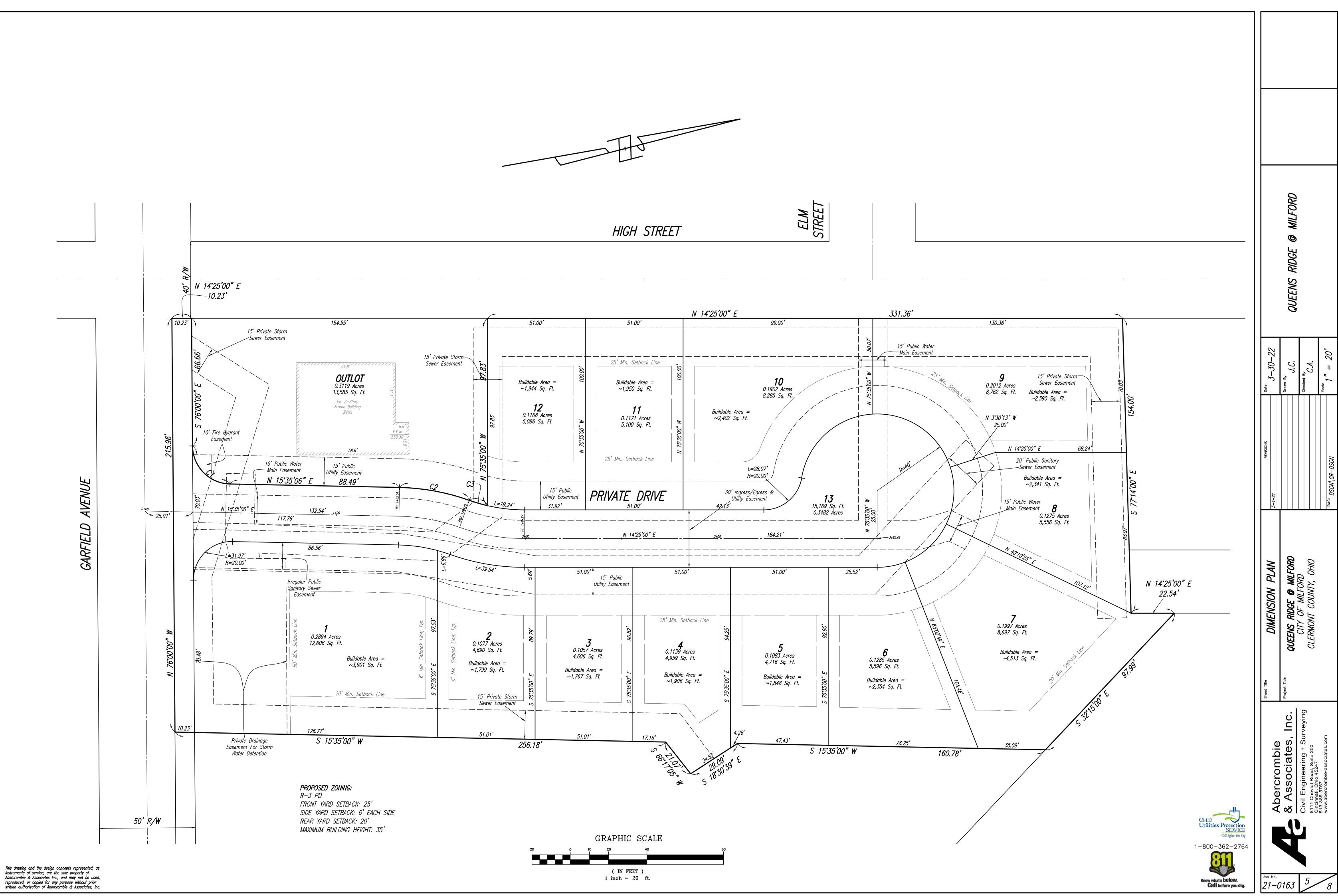


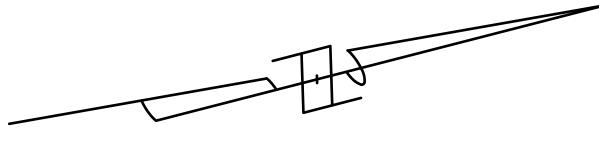


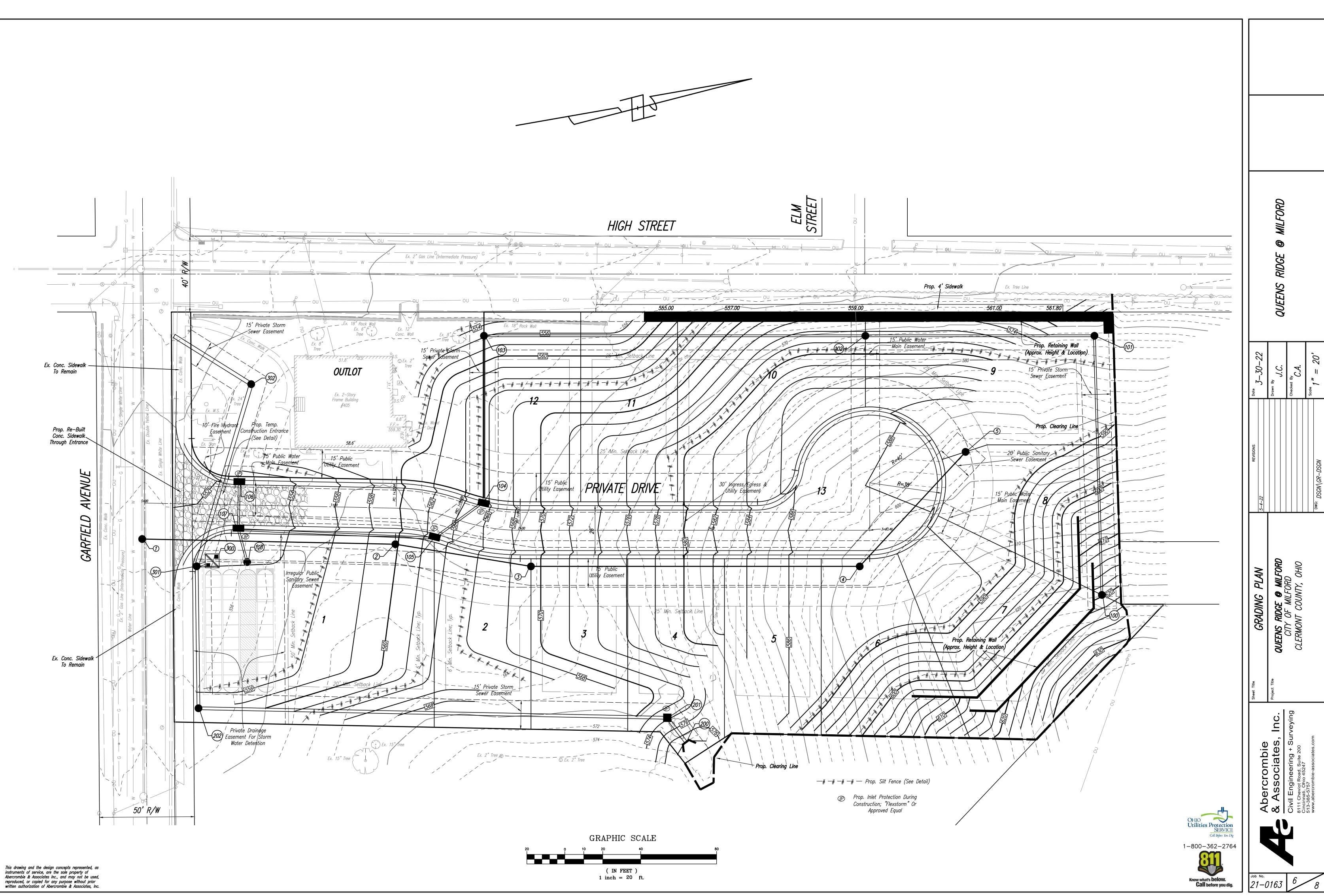


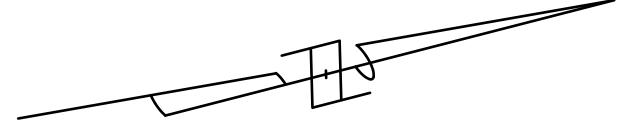
CURVE TABLE					
CURVE	DELTA	RADIUS	LENGTH	CHORD	BEARING
C1	88°24'54"	20.00'	30.86'	27.89'	N 59 ° 47'33" E
C2	18 ° 31'57"	115.00'	37.20'	37.04'	N 24°51'04" E
С3	6 ° 43'45"	<i>85.00'</i>	9.98'	9.98'	N 30°45'11" E

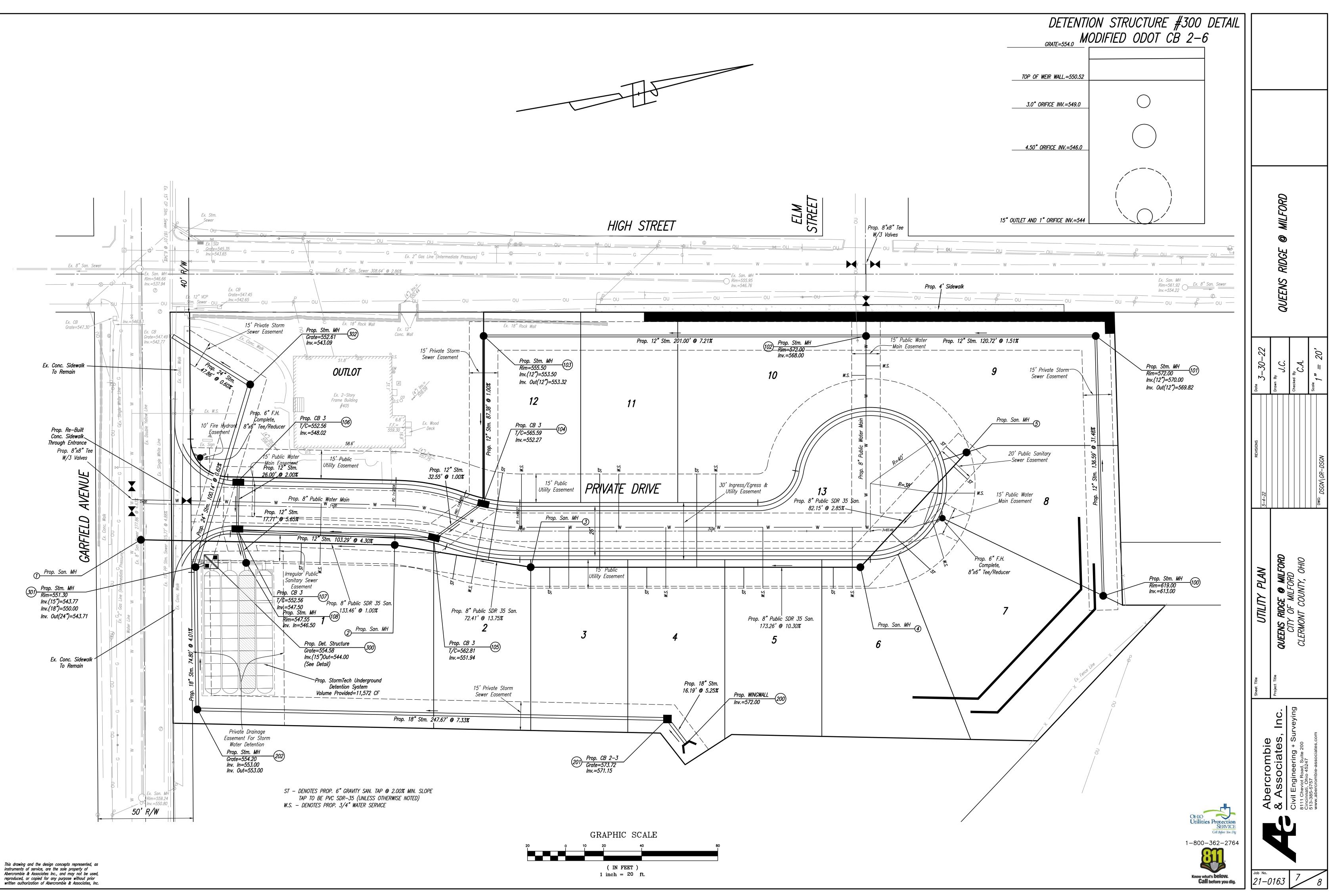


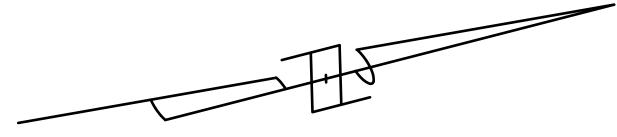


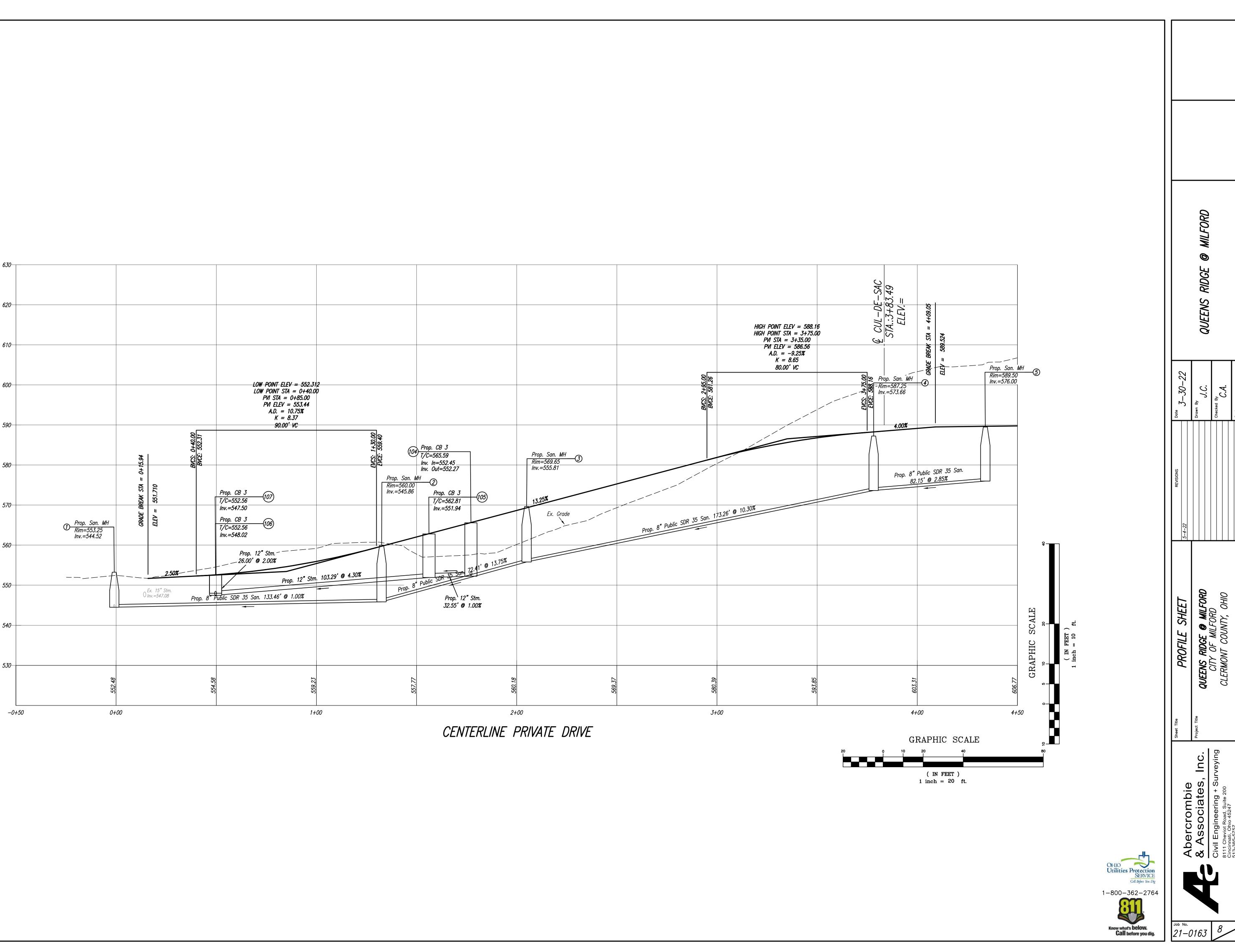












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