# **PARKING LOT EXPANSION** FOR PINE RIDGE COUNTRY CLUB

## **CITY OF WICKLIFFE - LAKE COUNTY - OHIO JANUARY**, 2024

## **DESIGNED BY:**



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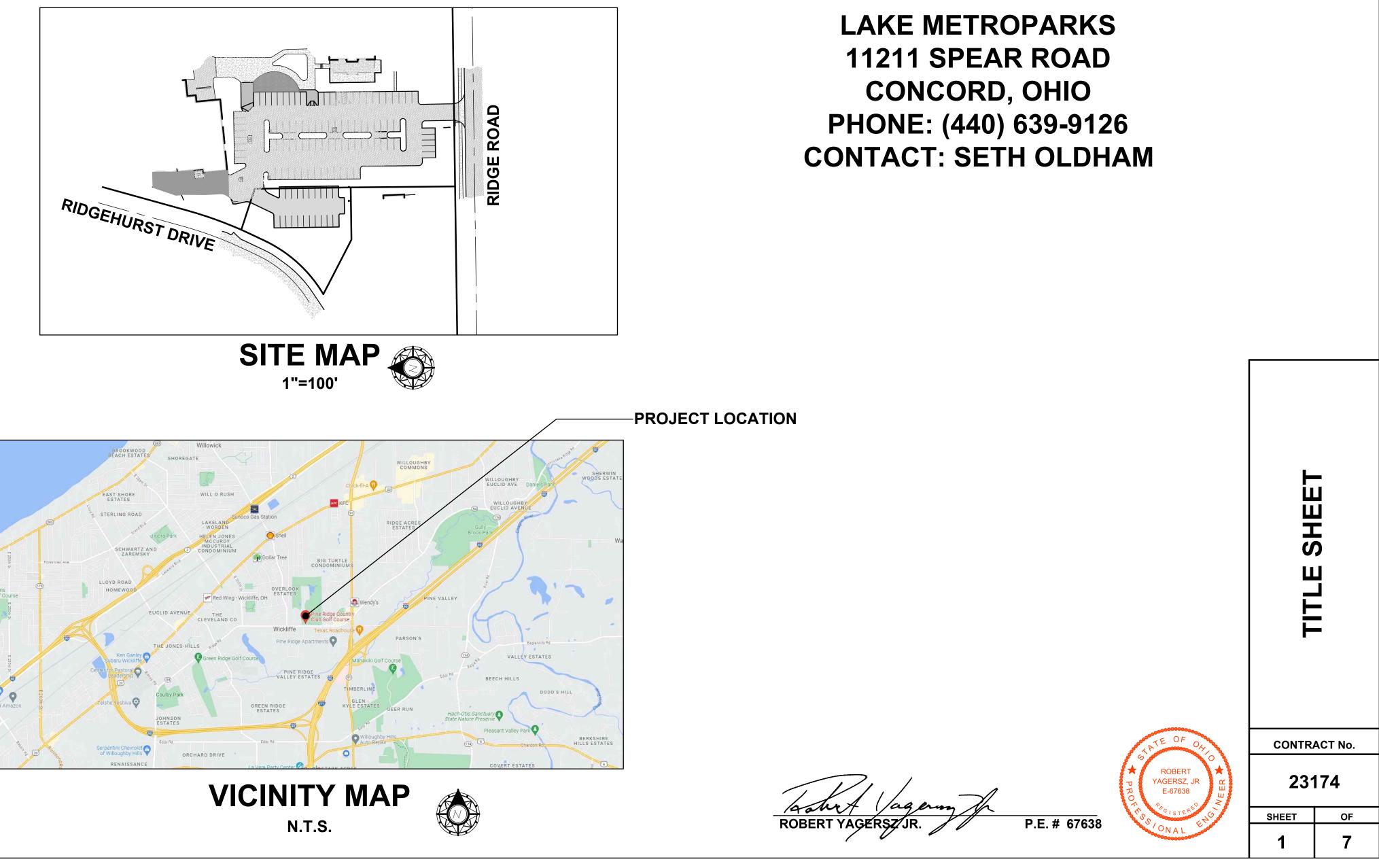
## **DRAWING INDEX**

### DESCRIPTION

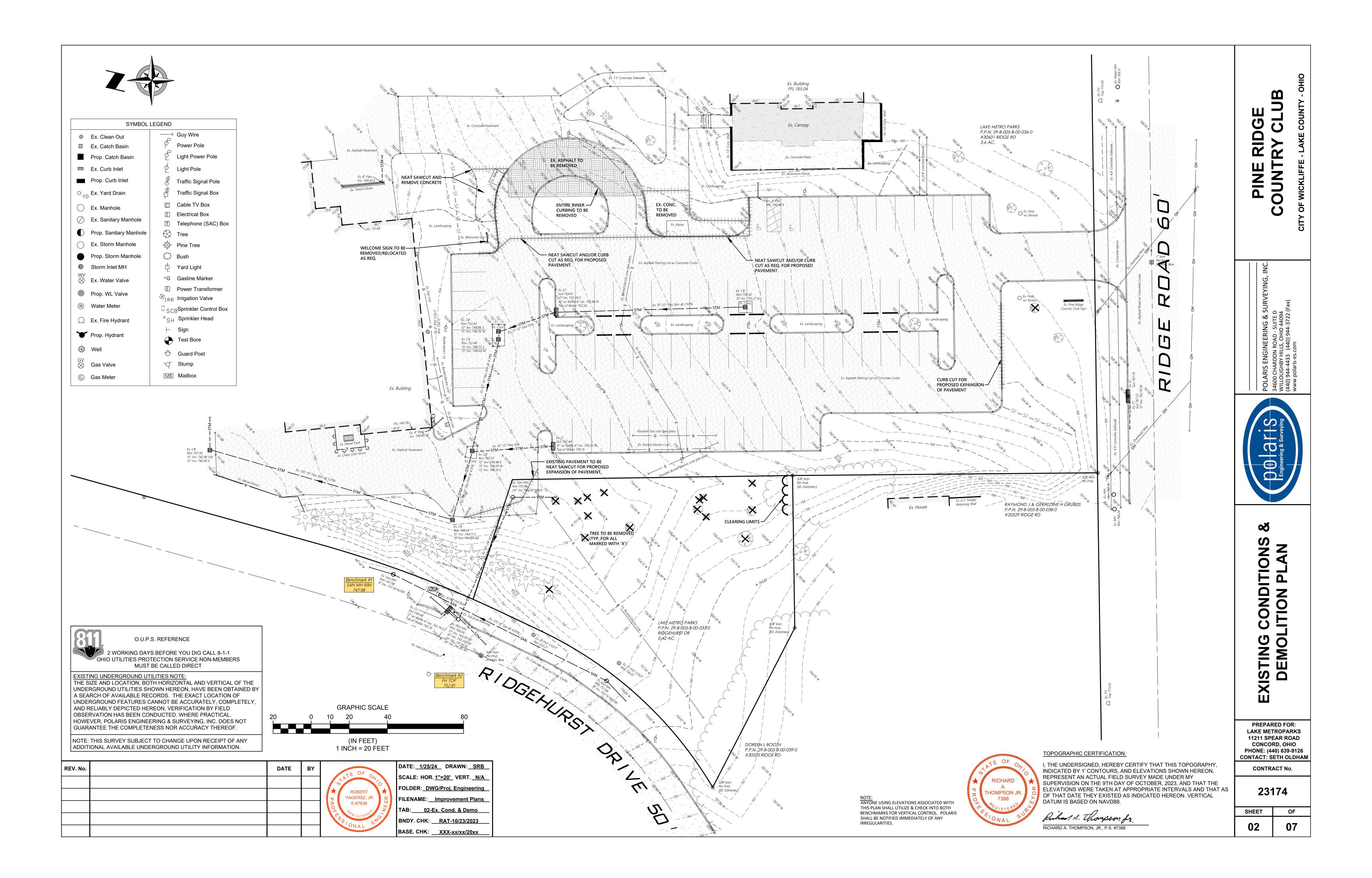
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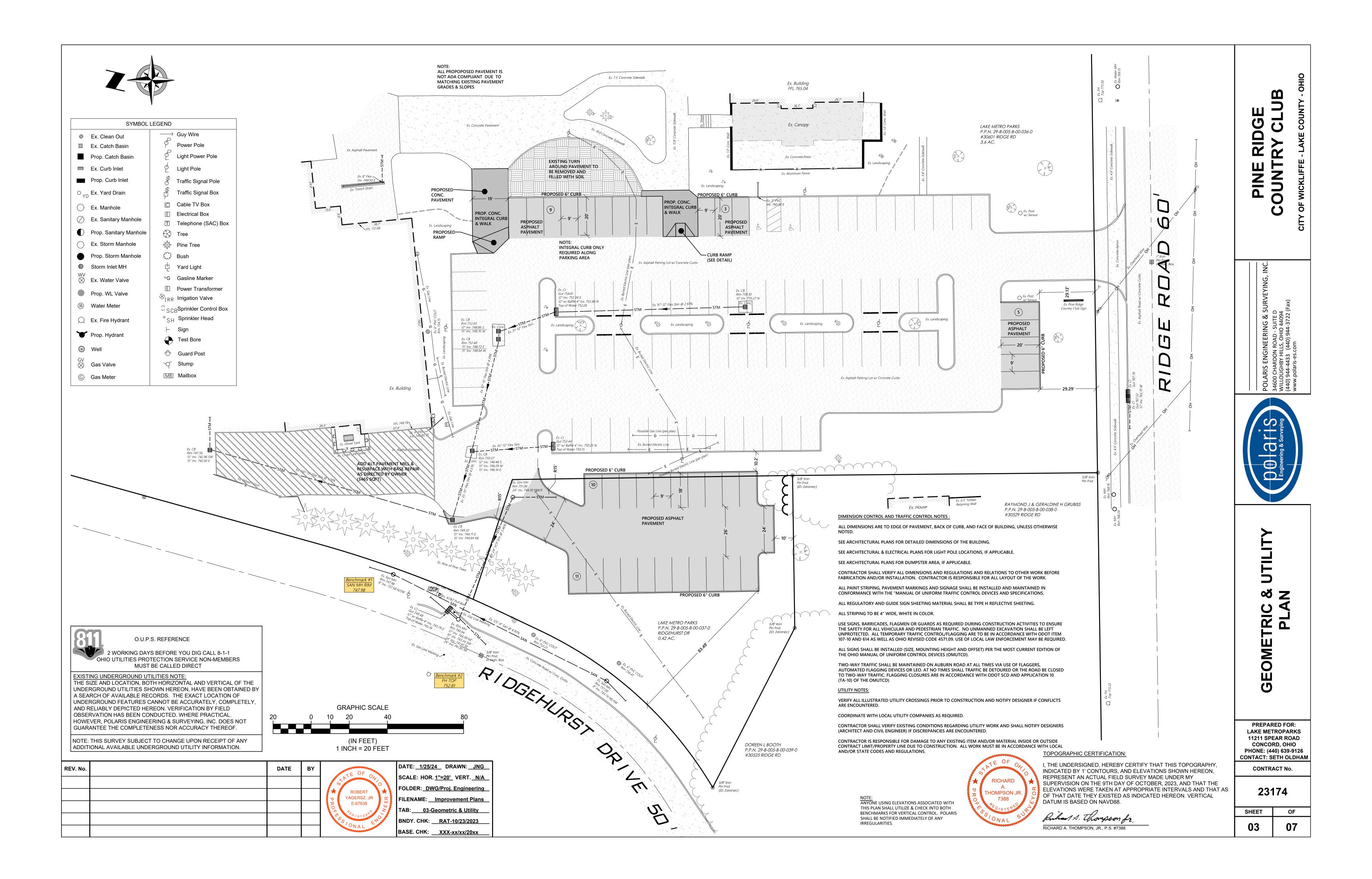
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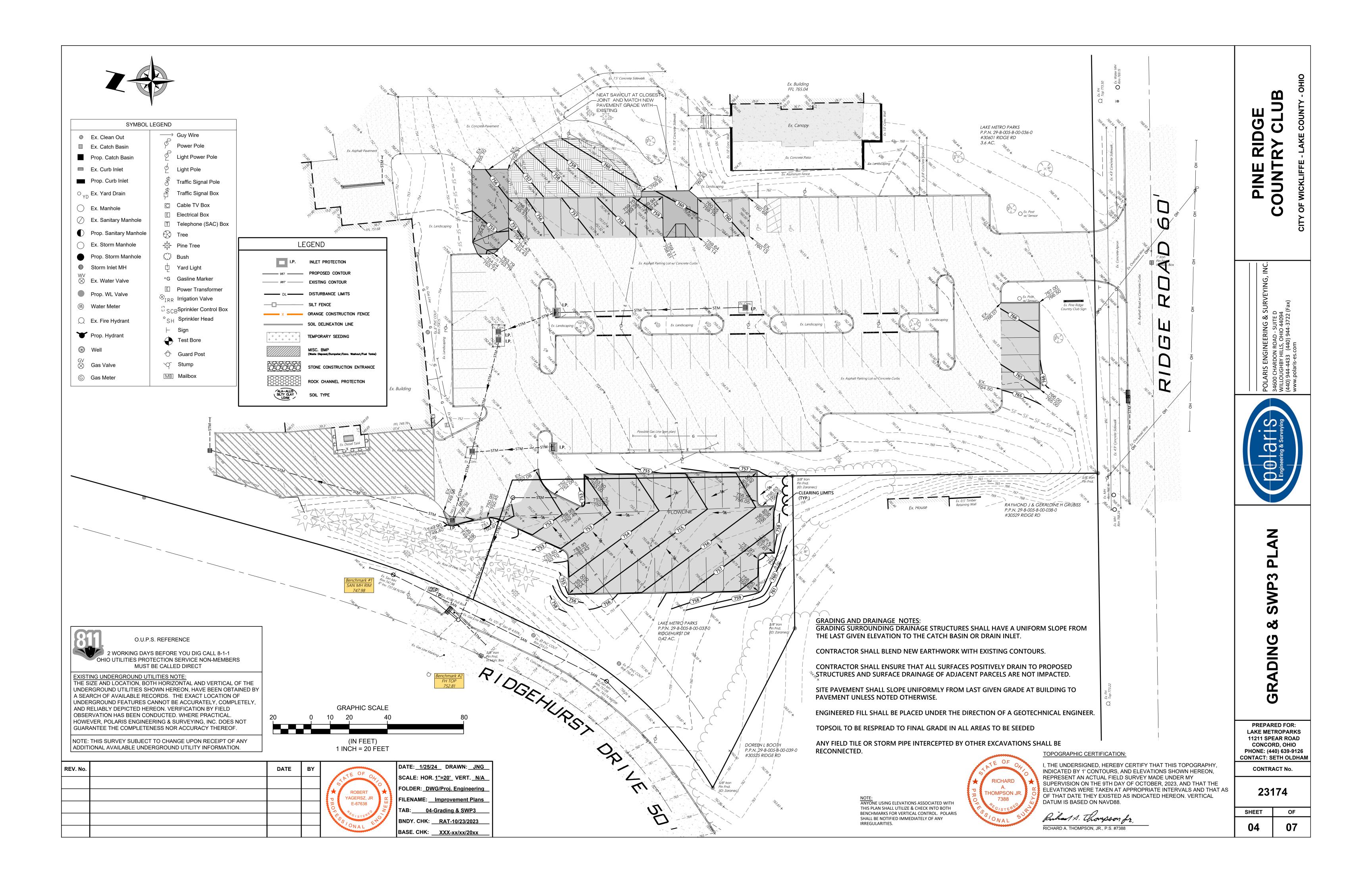
## **30601 RIDGE ROAD**



### **PREPARED FOR:**







#### **GENERAL EROSION AND SEDIMENT CONTROL NOTES**

EROSION CONTROL SHALL CONSIST OF TEMPORARY CONTROL MEASURES AS DETAILED ON THE PLANS OR ORDERED BY THE GOVERNING AGENCY DURING THE LIFE OF THE CONTRACT TO CONTROL SOIL EROSION AND SEDIMENTATION THROUGH USE OF EROSION CONTROL PERMANENT BEST MANAGEMENT PRACTICES (BMP'S).

ADDITIONAL EROSION CONTROL BMP'S MAY BE MANDATED BY THE GOVERNING AGENCY AT ANY TIME DURING THIS PROJECT AS UNFORSEEN SITUATIONS MAY ARISE THAT WARRANT FURTHER EROSION AND SEDIMENT CONTROL PRACTICES.

TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS, THE LOCATION AND SIZE OF WHICH ARE DETAILED ON THE PLANS, SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CLEARING OR EARTHWORK OPERATIONS. CONDITIONS THAT REQUIRE ADDITIONAL OR MODIFIED TEMPORARY OR PERMANENT BMP'S SHALL BE APPROVED BY THE DESIGN ENGINEER AND REFLECTED ON THE REVISED STORM WATER POLLUTION PREVENTION PLAN (SWP3).

SEDIMENT BASINS, SEDIMENT TRAPS, AND PERIMETER SEDIMENT CONTROLS, SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN 7 DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL DISTURBED AREAS ARE RE-ESTABLISHED WITH TEMPORARY VEGETATION. NO SEDIMENT CONTROLS SHALL BE PLACED IN A STREAM.

TRENCH DEWATERING OR GROUND WATER, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING BASIN OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING ALL CONSTRUCTION & DEMOLITION DEBRIS (C&DD) WASTE SHALL BE DISPOSED OF IN AN OHIO EPA APPROVED INTO SUMP PIT, FILTER BAG OR EXISITING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATER SHALL NOT BE C&DD LANDFILL AS REQUIRED BY OHIO REVISED CODE (ORC) 3714. CONSTRUCTION DEBRIS MAY BE DISPOSED DISCHARGED TO STREAMS OR THE STORM SEWER SYSTEM.

THE SWP3, NOTES, DETAILED DRAWINGS AND ANY ADDENDUMS ARE INTENDED TO SERVE AS BASIC GUIDELINES. ALL EROSION CONTROL PRACTICES SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR) RAINWATER AND LAND DEVELOPMENT MANUAL AND THE NDPES STORM WATER DISCHARGE PERMIT.

ALL CAST IRON CATCH BASINS, GRATES AND INLET COVERS SHALL HAVE THE MESSAGE "DUMP NO WASTE, DRAINS TO WATERWAYS".

#### STORMWATER QUALITY MAINTENANCE NOTES

ALL TEMPORARY AND PERMANENT CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED IN A FUNCTIONAL CONDITION UNTIL ALL UP SLOPE AREAS THEY CONTROL ARE PERMANENTLY STABILIZED. THE CONTRACTOR SHALL COMPLY WITH THE INSPECTION AND MAINTENANCE SCHEDULE INCLUDED WITH THE APPROVED PLANS FOR THE PROPOSED EROSION CONTROLS. A WRITTEN DOCUMENT CONTAINING THE SIGNATURES OF ALL CONTRACTORS AND SUB-CONTRACTORS INVOLVED IN THE IMPLEMENTATION OF THE BMPS MUST BE MAINTAINED AS PROOF ACKNOWLEDGING THAT THEY REVIEWED AND UNDERSTAND THE CONDITIONS AND RESPONSIBILITIES OF THE SWP3.

PROPERTY OWNER SHALL BE RESPONSIBLE FOR OVERSEEING MAINTENANCE OF ALL EROSION CONTROL AND WATER QUALITY PRACTICES. OWNER SHALL MAINTAIN PROPER OPERATION. IF PROPERTY SHOULD TRANSFER OWNER NEW OWNER WILL ASSUME RESPONSIBILITY FOR ALL INSPECTIONS, ANY REQUIRED MAINTENANCE AND/OR REPAIRS.

SEE "OEPA CONSTRUCTION SITE INSPECTION CHECKLIST" FOR INSPECTIONS OCCURRING DURING THE CONSTRUCTION PROCESS. SEE "OPERATION AND MAINTENANCE INSPECTION REPORT FOR STORMWATER MANAGEMENT PONDS" FOR INSPECTIONS OCCURRING AFTER SITE STABILIZATION. INSEPCTION REPORTS CAN BE OBTAINED BY CONTACTING THE DESIGN ENGINEER.

INSPECTIONS AND REQUIRED MAINTENANCE OCCURRING DURING THE CONSTRUCTION PROCESS ARE THE RESPONSIBILITY OF THE SITE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS ATTRIBUTED TO REPAIRS DURING CONSTRUCTION ACTIVITIES.

INSPECTIONS AND REQUIRED MAINTENANCE OCCURRING AFTER THE SITE IS STABILIZED ARE THE RESPONSIBILITY DUST CONTROLS/SUPRESSANTS OF THE OWNER OR A QUALIFIED AGENT OF THE OWNER. THE OWNER SHALL BE RESPONSIBLE FOR ANY COSTS ATTRIBUTED TO REPAIRS AFTER SITE STABILIZATION.

SEE "OPERATION AND MAINTENANCE INSPECTION REPORT FOR STORMWATER MANAGEMENT PONDS" FOR TIMING ON INSPECTION FREQUENCY. NOTE THAT ADDITIONAL INSPECTIONS MAY BE REQUIRED IN THE FIRST YEAR TO ENSURE PROPER OPERATION OF STORM WATER MANAGEMENT FACILITIES.

PERPETUAL MAINTENANCE INSPECTION REPORTS ARE TO BE SUBMITTED TO THE COMMUNITY BY MAY 1ST OF EACH AND EVERY YEAR AFTER THE BEST MANAGEMENT PRACTICE (BMP) HAS BEEN COMPLETED.

ALL STORMWATER CONTROLS ON THE SITE ARE INSPECTED AT LEAST ONCE EVERY SEVEN CALANDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN ONE-HALF INCH OF RAIN PER 24 HOUR PERIOD. A WRITTEN RECORD DOCUMENTATING THE RESULTS OF THESE INSPECTIONS MUST BE CREATED AND MAINTAINED WITH THE SWP.3 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 EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE SWP3 SHALL BE OBSERVED TO ENSURE THAT THOSE 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 TRACKING.

I. WHEN PRACTICES REQUIRE REPAIR OR MAINTENANCE IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE IS IN NEED OF REPAIR OR MAINTENANCE, WITH 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 10 DAYS OF THE OF INSPECTION.

II. <u>WHEN PRACTICES FAIL TO PROVIDE THEIR INTENDED FUNCTION</u> 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, MUST BE AMENDED AND THE CLEARING AND GRUBBING. SEDIMENTS SHALL BE REMOVED FROM ROADWAYS DAILY. NEW CONTROL PRACTICE MUST BE INSTALLED WITHIN 10 DAYS OF INSPECTION.

III. <u>WHEN PRACTICES DEPICTED ON THE SWP3 ARE NOT INSTALLED</u> IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE HAS NOT BEEN IMPLEMENTED IN ACCORDANCE WITH THE SWP3. THE SWP3 MUST BE AMENDED AND THE NEW CONTROL PRACTICE MUST BE INSTALLED WITHIN 10 DAYS 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.

SEE "OPERATION AND MAINTENANCE INSPECTION REPORT FOR STORMWATER MANAGEMENT PONDS" FOR TIMING ON INSPECTION FREQUENCY. NOTE THAT ADDITIONAL INSPECTIONS MAY BE REQUIRED IN THE FIRST YEAR TO ENSURE PROPER OPERATION OF STORM WATER MANAGEMENT FACILITIES.

PERPETUAL MAINTENANCE INSPECTION REPORTS ARE TO BE SUBMITTED TO THE COMMUNITY BY MAY 1ST OF EACH AND EVERY YEAR AFTER THE BEST MANAGEMENT PRACTICE (BMP) HAS BEEN COMPLETED.

#### NON SEDIMENT SITE POLLUTION CONTROLS

NO SOLID OR LIQUID WASTE, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED IN STORMWATER RUNOFF. ALL NECESSARY BMP'S MUST BE IMPLEMENTED TO PREVENT THE DISCHARGE OF NON-SEDIMENT POLLUTANTS TO THE DRAINAGE SYSTEM OF THE SITE OR SURFACE WATERS OF THE STATE. NO EXPOSURE OF STORMWATER TO WASTE MATERIALS IS RECOMMENDED.

HANDLING OF TOXIC AND HAZARDOUS WASTES DO: PREVENTS SPILLS, USE PRODUCTS UP - FOLLOW LABEL DIRECTIONS FOR DISPOSAL - REMOVE LIDS FROM EMPTY BOTTLES AND CANS WHEN DISPOSING IN TRASH - RECYCLE WASTES WHENEVER POSSIBLE. DON'T: POUR INTO WATERWAYS, STORM DRAINS, ONTO GROUND - POUR INTO SINKS, FLOOR DRAIN OR SEPTIC TANKS – BURY CHEMICALS OR CONTAINERS – BURN CHEMICALS OR CONTAINERS – MIX CHEMICALS TOGETHER.

WASTE DISPOSA CONTAINERS (E.G., DUMPSTERS, DRUMS) SHALL BE AVAILABLE FOR DISPOSAL OF DEBRIS, TRASH, HAZARDOUS OR PETROLEUM WASTES. ALL CONTAINERS MUST BE COVERED AND LEAK-PROOF. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THE PERTINENT MATERIAL.

CLEAN HARD FIL BRICKS, HARDENING CONCRETE, AND SOIL WASTE SHALL BE FREE FROM CONTAMINATION WHICH MAY LEACH CONSTITUENTS TO WATERS OF THE STATE.

LOCAL PROHIBITIONS FROM THIS TYPE OF DISPOSAL.

CONSTRUCTION & DEMOLITION DEBRIS OF ON-SITE, BUT DEMOLITION DEBRIS MUST BE DISPOSED IN A OHIO EPA APPROVED LANDFILL. ALSO, MATERIALS WHICH CONTAIN ASBESTOS MUST COMPLY WITH AIR POLLUTION REGULATIONS (SEE OHIO ADMINISTRATIVE CODE (OAC) 3745-20).

CONSTRUCTION CHEMICAL COMPOUNDS AREA SHALL BE DESIGNATED FOR MIXING OR STORAGE OF COMPOUNDS SUCH AS FERTILIZERS, LIME ASPHALT, OR CONCRETE, THESE DESIGNATED AREAS SHALL BE LOCATED AWAY FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS, OR OTHER STORMWATER DRAINAGE AREA.

EQUIPMENT FUELING & MAINTENANCE EQUIPMENT FUELING & MAINTENANCE SHALL BE IN DESIGNATED AREAS ONLY.

CONCRETE WASH WATER ALL DESIGNATED CONCRETE WASHOUT AREAS SHALL BE LOCATED AWAY FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS, OR OTHER STORMWATER DRAINAGE AREAS.

CONTAMINATED SOILS ALL CONTAMINATED SOIL MUST BE TREATED AND/OR DISPOSED IN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITIES OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITIES (TSDFS).

SPILL PREVENTION CONTROL & COUNTERMEASURES A SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN MUST BE DEVELOPED FOR SITES WITH ONE ABOVE-GROUND STORAGE TANK OF 660 GALLONS OR MORE, TOTAL ABOVE-GROUND STORAGE OF 1,330 GALLONS, OR BELOW-GROUND STORAGE OF 42,000 GALLONS OF FUEL.

<u>SPILL REPORTING REQUIREMENTS</u> THE CONTRACTOR SHALL CONTACT THE OHIO EPA AT 800–282–9378, THE LOCAL FIRE DEPARTMENT, AND THE PRESENCE OF SHEEN. ON PROJECTS NORTH OF ROUTE 2 THE COAST GUARD MUST BE NOTIFIED AT (216) 937–0111. A SPILL KIT SHALL BE READILY AVAILABE ONSITE FOR ALL SMALL SPILLS < 25 GALLONS.

OPEN BURNING OPEN BURNING IS NOT PERMITTED.

USED OIL MAY NOT BE USED AS A DUST SUPPRESSANT. NO DUST SUPPRESSANT SHALL BE APPLIED NEAR CATCH BASINS, STORM SEWERS OR OTHER DRAINAGE WAYS.

AIR PERMITTING REQUIREMENTS CERTAIN ACTIVITIES ASSOCIATED WITH CONSTRUCTION WILL REQUIRE AIR PERMITS. ACTIVITIES INCLUDING BUT NOT LIMITED TO MOBILE CONCRETE BATCH PLANTS, MOBILE ASPHALT PLANTS, CONCRETE CRUSHERS, LARGE GENERATORS, ETC, WILL REQUIRE SPECIFIC OHIO EPA AIR PERMITS FOR INSTALLATION AND OPERATION.

PROCESS WASTE WATER/LEACHATE MANAGEMENT DISCHARGES INCLUDING BUT NOT LIMITED TO VEHICLE/AND OR EQUIPMENT WASHING, LEACHATE ASSOCIATED

PROPERLY DISPOSED OF AT AN APPROVED DISPOSAL FACILITY. SOIL STABILIZATION CONTROLS

CLEARING & GRUBBING LIMITS OF CLEARING AND GRADING SHALL BE CLEARLY MARKED ON THE SITE WITH SIGNAGE, FLAGGING AND/OR CONSTRUCTION FENCING.

THE CONTRACTOR SHALL LIMIT THE SURFACE AREA OF ERODABLE EARTH MATERIAL EXPOSED BY EXCAVATION, BORROW, AND FILL OPERATIONS AND PROVIDE IMMEDIATE PERMANENT OR TEMPORARY CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT STREAMS OR OTHER WATER COURSES, LAKES, PONDS, WETLANDS OR OTHER AREAS OF WATER IMPOUNDMENT.

CONSTRUCTION ENTRANC A STONED CONSTRUCTION ENTRANCE SHALL BE INSTALLED FOR ALL INGRESS & EGRESS TO THE SITE. THE MINIMUM DIMENSIONS OF THE DRIVE SHALL BE 14 FT. WIDE AND 70 FT. LONG. THE STONE SHALL BE 12 INCHES DEEP WITH AN UNDERLAIN GEOTEXTILE FABRIC. THE DRIVE SHALL BE INSTALLED PRIOR TO ANY

PERMANENT AND TEMPORARY STABILIZATION ARE DEFINED IN PART VII OF THE OEPA AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM OHIO EPA PERMIT NO. OHOOOOO5 EFFECTIVE DATE 4/23/18 - EXPIRATION DATE 4/22/23 DISTURBED AREAS MUST BE STABILIZED AS SPECIFIED IN THE FOLLOWING TABLES BELOW:

EMPORARY SEEDIN SEEDING AREAS SHALL BE INSPECTED AND WHERE THE SEED HAS NOT PRODUCED 80% COVER SHALL BE RESEEDED AS NECESSARY BY THE CONTRACTOR. AREAS SHALL BE STABILIZED WITH MULCH WHEN CONDITIONS PROHIBIT SEEDING.

STRAW MULCHING SHALL BE APPLIED AT A RATE 2-3 STANDARD 45 LB. BALES PER 1000 SQ.FT. OF DISTURBED AREA OR 2 TONS PER ACRE. ALL HYDROSEEDING MUST BE STRAW MULCHED ACCORDING TO THE ABOVE SPECIFICATIONS UNLESS IT IS WATERED WEEKLY. ALL DETENTION PONDS, RETENTION PONDS, WATER QUALITY STRUCTURES, SEDIMENT PONDS, SEDIMENT TRAPS, EARTHEN DIVERSIONS OR EMBANKMENTS SHALL BE SEEDED AND MULCHED WITHIN 7 DAYS OF COMPLETED CONSTRUCTION.

TEMPORARY	s s
REA REQUIRING TEMPORARY STABILIZATION NY DISTURBED AREAS WITHIN 50 FT. OF A TREAM AND NOT AT FINAL GRADE	WI IF DA
OR ALL CONSTRUCTION ACTIVITIES, ANY ISTURBED AREAS THAT WILL BE DORMANT OR MORE THAN 14 DAYS BUT LESS THAN NE YEAR, AND NOT WITHIN 50 FT. OF TREAM	WI DI DA TH

NISTURBED AREAS THAT WILL BE IDLE OVER PRIOR TO ONSET OF WINTER WEATHER (NOV.1) STRAW WINTER MULCH 2 TO 3 BALES PER 1000 SQ.FT. AND OR 2 TONS PER ACRE.

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			ONAL CONSTRACTOR	BASE. CHK: <u>XXX-xx/xx/20xx</u>

CLEAN CONSTRUCTION WASTES THAT WILL BE DISPOSED INTO THE PROPERTY, SHALL BE SUBJECT TO ANY

WITH ON-SITE WASTE DISPOSAL, CONCRETE WASHOUTS, ETC. ARE A PROCESS WASTEWATER AND ARE NOT AUTHORIZED FOR DISCHARGE UNDER OHCOOO005 ALL PROCESS WASTE WATER MUST BE COLLECTED AND

> TABILIZA TION TIME FRAME TO APPLY EROSION CONTROL THIN TWO DAYS OF THE MOST RECENT DISTURBANCE

THE AREA WILL REMAIN IDLE FOR MORE THAN 14 THIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE THIN THE AREA FOR RESIDENTIAL SUBDIVISIONS, STURBED AREAS MUST BE STABILIZED AT LEAST SEVEN

AYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR HE INDIVIDUAL LOT(S)

TEMPORARY SEEDING SPECIFICATIONS

EEDING DATES	SPECIES	LB. / 1000SQFT	PER ACRE	
IARCH 1 TO AUGUST 15	OATS	3	4 BUSHEL	
	TALL FESCUE	1	40 LB.	
	ANNUAL RYEGRASS	1	40 LB.	
	PERENNIAL RYEGRASS	1	40 LB.	
	TALL FESCUE	1	40 LB.	
	ANNUAL RYEGRASS	1	40 LB.	
UGUST 16 TO NOVEMBER 1	RYE	1	2 BUSHEL	
	TALL FESCUE	1	40 LB.	
	ANNUAL RYEGRASS	1	40 LB.	
	WHEAT	1	40 LB.	
	TALL FESCUE	1	40 LB.	
	ANNUAL RYEGRASS	1	40 LB.	
	PERENNIAL RYEGRASS	1	40 LB.	
	TALL FESCUE	1	40 LB.	
	ANNUAL RYEGRASS	1	40 LB.	
IOVEMBER 1 TO SPRING SEEDING USE MULCH ONLY, SODDING PRACTICES OR DORMANT EEDING. IOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.				
PERMANENT STABILIZATION				

REA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROL
NY AREA THAT WILL LIE DORMANT FOR ONE EAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
NY AREA WITHIN 50 FT. OF A STREAM AND AT INAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
NY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

PERMANENT SEEDING SPECIFICATIONS

Seed Mix	lb./ac.	lb. / 1000sqft	Notes:			
General Use						
Creeping Red Fescue Domestic Ryegrass Kentucky Bluegrass Tall Fescue Dwarf Fescue	20-40 10-20 10-20 40 40	1/2-1 1/4-1/2 1/4-1/2 1 1				
	Steep Be	anks or Cut Slopes				
Tall Fescue	40	1				
Crown Vetch Tall Fescue	10 20	1/4 1/2	Do not seed later than August.			
Flat Pea Tall Fescue	20 20	1/2 1/2	Do not seed later than August.			
Road Ditches and Swales						
Tall Fescue	40	1				
Dwarf Fescue Kentucky Bluegrass	90 5	2 1/4				
Lawns						
Kentucky Bluegrass Perennial Ryegrass	60 60	1 1/2 1 1/2 1 1/2				
Kentucky Bluegrass Creeping Red Fescue	60 60	1 1/2 1 1/2	For Shaded areas.			

Note: other approved seed species may be substituted.

PERMANENT STABILIZATION OF CONVEYANCE CHANNELS OPERATORS SHALL UNDERTAKE SPECIAL MEASURES TO STABILIZE CHANNELS AND OUTFALLS AND PREVENT EROSIVE FLOWS. MEASURES MAY INCLUDE SEEDING, DORMANT SEEDING (AS DEFINED IN THE LATEST EDITION OF ODNR RAINWATER AND LAND DEVELOPMENT MANUAL), MULCHING, EROSION CONTROL MATTING, SODDING, RIPRAP NATURAL CHANNEL DESIGN WITH BIO ENGINEERING TECHNIQUES OR ROCK CHECK DAMS.

#### **TEMPORARY SEDIMENT CONTROLS**

<u>SILL FENCE</u> SHEET FLOW RUNOFF FROM DENUDED AREAS SHALL BE INTERCEPTED BY SILT FENCE OR DIVERSIONS TO PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM SEDIMENT TRANSPORTED VIA SHEET FLOW. WHERE INTENDED TO PROVIDE SEDIMENT CONTROL, SILT FENCES SHALL BE PLACED ON A LEVEL CONTOUR. THE EPA PERMIT NO. OHCOOD004 DOES NOT PRECLUDE THE USE OF OTHER SEDIMENT BARRIERS DESIGNED TO CONTROL SHEET FLOW RUNOFF. SILT FENCE IS NOT PERMITTED TO BE USED FOR CONTROLLING CONCENTRATED SURFACEWATER FLOW (ONLY SHEET FLOW).

THE SIZE OF THE DRAINAGE AREA THAT CAN BE TREATED BY SILT FENCE VARIES WITH TOPOGRAPHY. THE FOLLOWING TABLE IS TO BE USED TO DETERMINE THE MAXIMIUM UPSTREAM DISTANCE THAT IS ALLOWABLE TO BE TREATED BY THE SILT FENCE IN ODRER TO FUNCTION PROPERLY:

SLOPE	SLOPE LENGTH (FT)
FLATTER THAN 50:1	250
50:1-10:1	125
10:1-5:1	100
5:1-3:1	75
3:1-2:1	50
>2:1	25
	FLATTER THAN 50:1 50:1–10:1 10:1–5:1 5:1–3:1 3:1–2:1

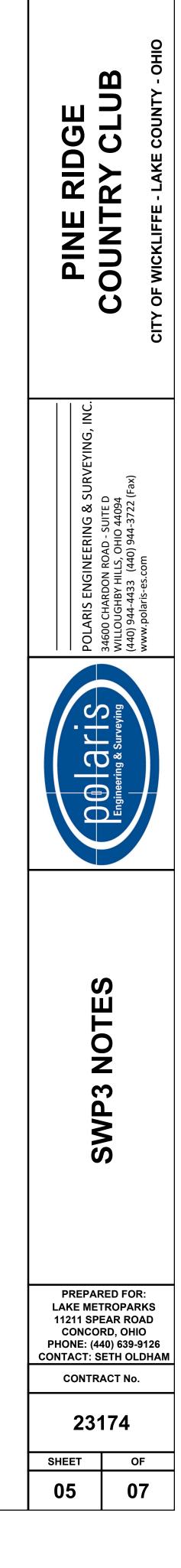
INLET PROTECTION OTHER EROSION AND SEDIMENT CONTROL PRACTICES SHALL MINIMIZE SEDIMENT LADEN WATER ENTERING ACTIVE STORM DRAIN SYSTEMS, UNLESS THE STORM DRAIN SYSTEM DRAINS TO A SEDIMENT POND. INLET PROTECTION IS MANDATORY WHERE SEDIMENT SETTLING PONDS WILL NOT BE IMPLEMENTED.

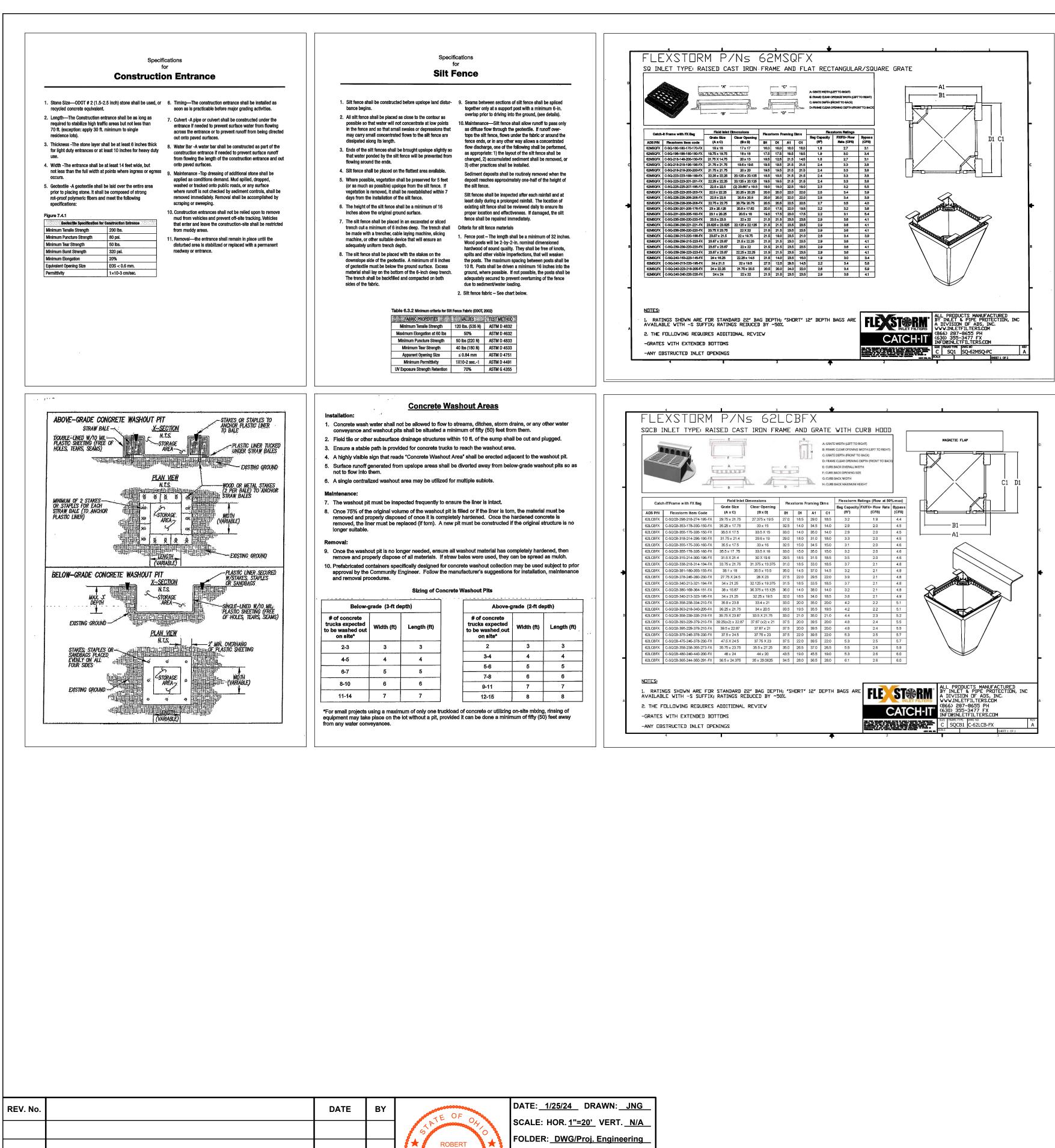
#### **TEMPORARY RUN-OFF CONTROLS**

STORMWATER DIVERSION PRACTICES SHALL BE USED TO KEEP RUNOFF AWAY FROM DISTURBED AREAS AND STEEP SLOPES WHERE PRACTICAL. DIVERSIONS SHOULD BE USED IN LOCATIONS WHERE THE DRAINAGE AREA EXCEEDS THE CAPACITY OF THE SILT FENCE. IN SUCH CASES, THE RUNOFF SHOULD BE DIVERTED INTO A SEDIMENT BASIN OR SEDIMENT TRAP. DIVERSION SWALES, DIKES OR BERMS, MAY RECEIVE FROM AREAS UP TO 10 ACRES.

#### **CONSTRUCTION SEQUENCE FOR SEDIMENT EROSION CONTROL PRACTICES**

- 1. SAW CUT PAVEMNET AREAS TO BE REMOVED AND REMOVE DESIGNATED PAVEMENT
- 3. INSTALL CONSTRUCTION DRIVE FOR DURATION OF THE PROJECT.
- 4. DELIVER CONSTRUCTION TRAILER TO SITE AND ESTABLISH TEMPORARY POWER AND TELEPHONE SERVICE.
- 5. ALL TEMPORARY UTILITY SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 6. ROUGH GRADE SITE FOR BUILDING PAD AND PAVEMENT AREAS AND STABILIZE NON BUILDING AND PAVEMENT AREAS WITH TEMPORARY SEEDING AND MULCHING. 11. INSTALL PROPOSED UTILITIES, BUILDING AND PAVEMENT
- 12. UPON COMPLETION OF THE UTILITY AND PAVEMENT INSTALLATION, FINE GRADE, AND RESPREAD TOPSOIL
- 13. STABILIZE ALL DISTURBED AREA WITH PERMANENT SEED AND MULCHING IMMEDIATELY UPON REACHING FINAL GRADE.
- 14. RESEED AND REDRESS ANY AREAS THAT MAY REQUIRE ATTENTION IMMEDIATELY. NOTE LAWN AREAS WILL NOT BE DEEMED STABLE UNTIL 70% COVERAGE IS ACHIEVED.
- 15. ALL EROSION MEASURES SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED. ALL AREAS OF VEGETATIVE SURFACE STABILIZATION, WHETHER TEMPORARY OR PERMANENT, SHALL BE CONSIDERED TO BE IN PLACE AND FUNCTIONAL WHEN THE UNIFORM RATE OF COVERAGE (70%) IS OBTAINED. 16. ONCE SITE IS DEEMED STABLE THE SITE MAY BE CLEANED UP REMOVING SILT FENCE, AND INLET PROTECTION, THEN SEED WITH PERMANENT SEEDING.



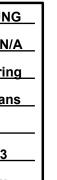


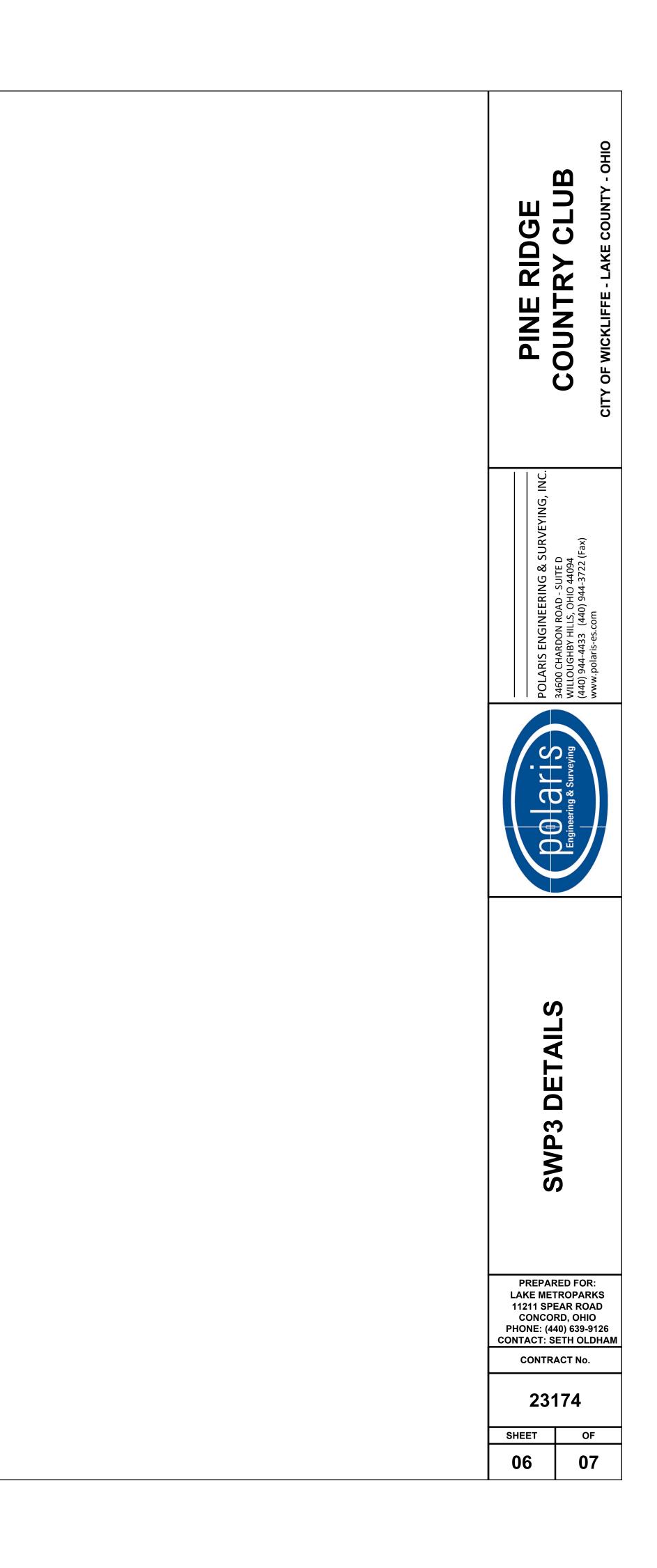
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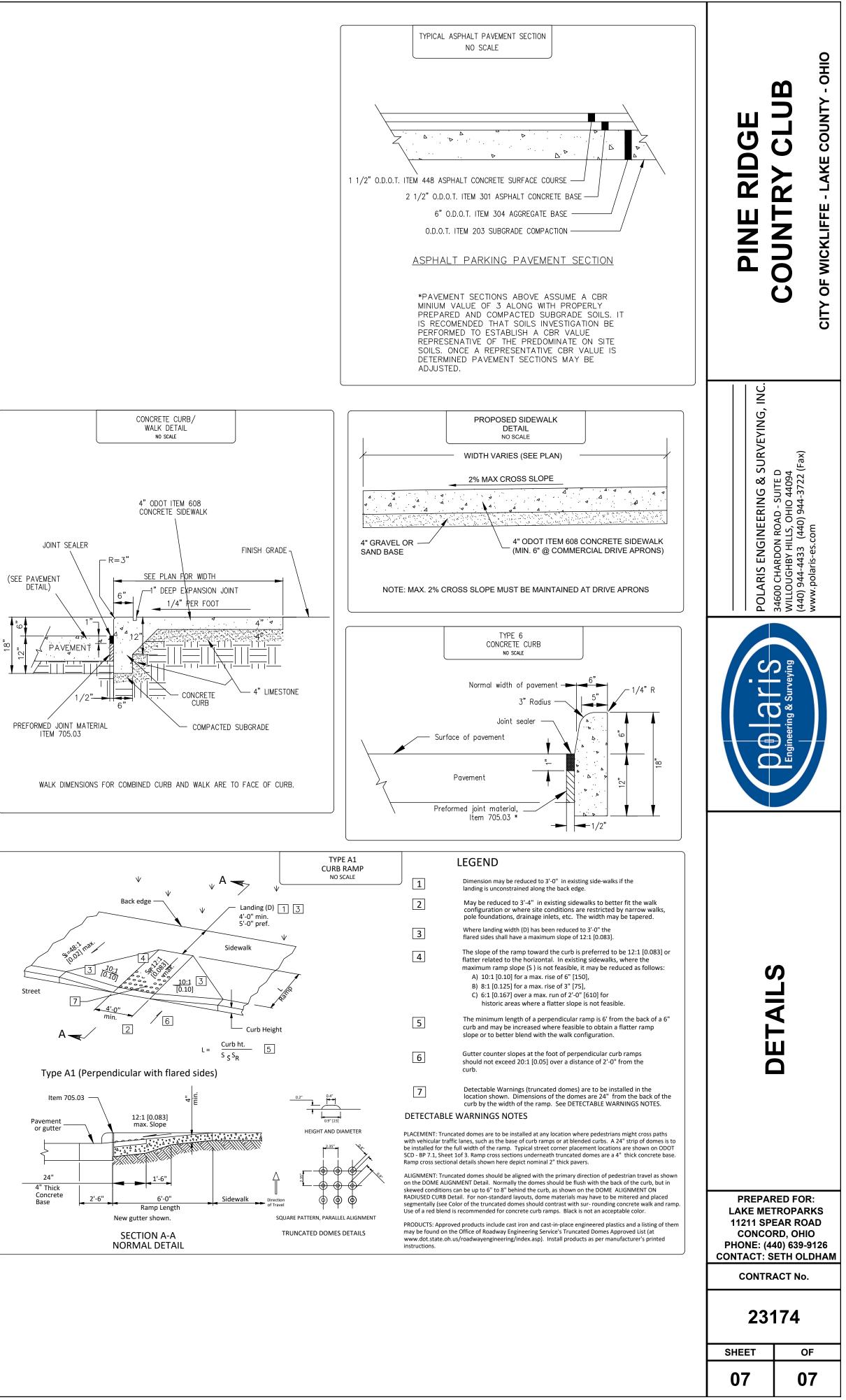
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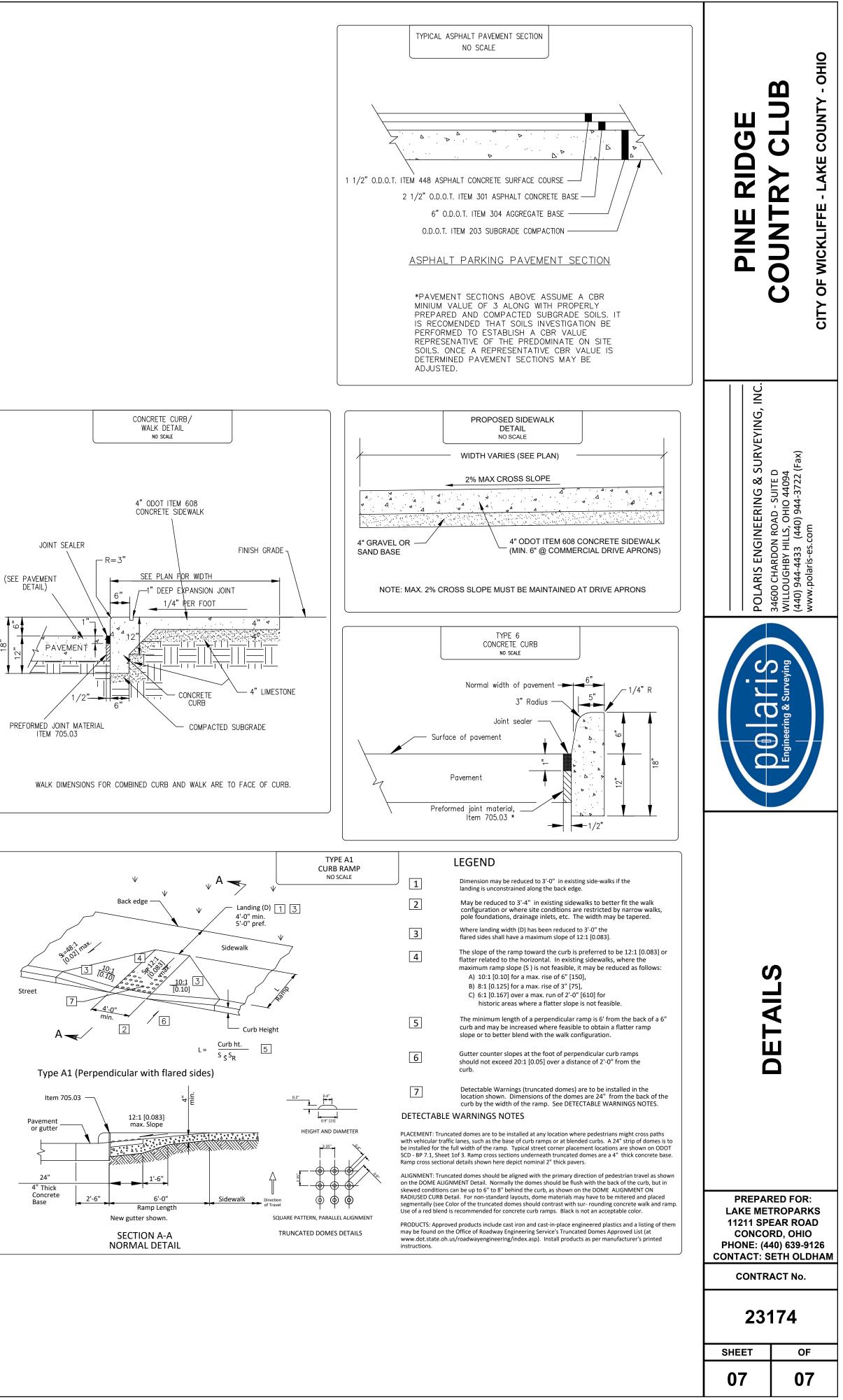
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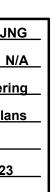


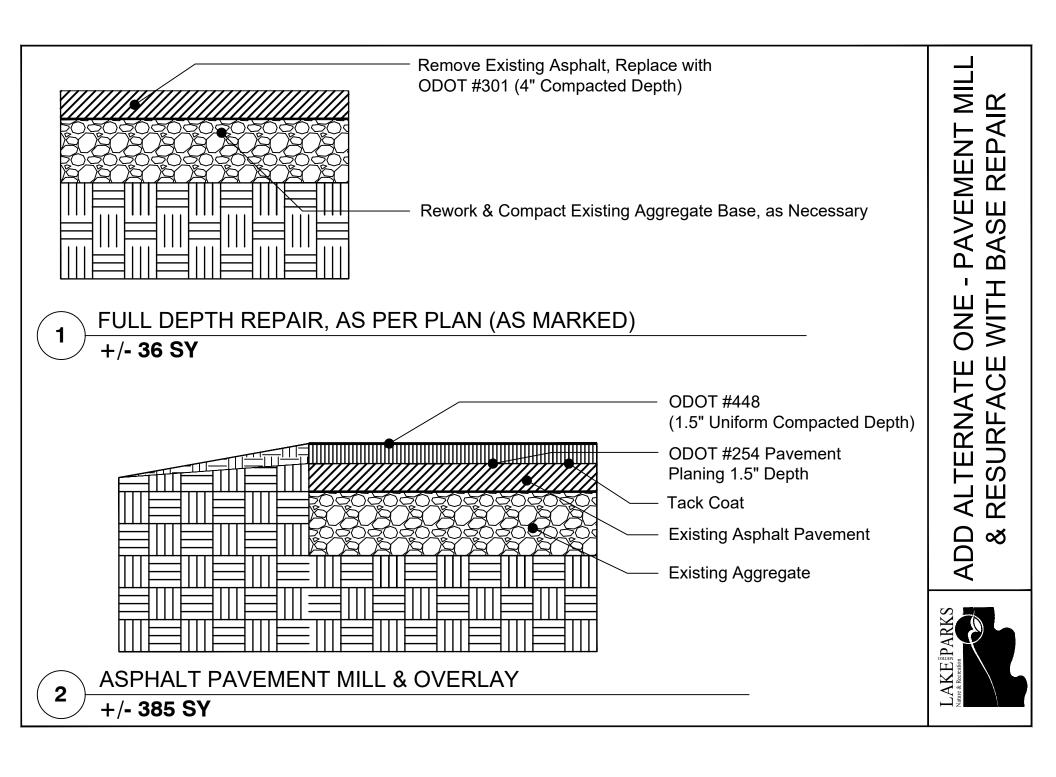


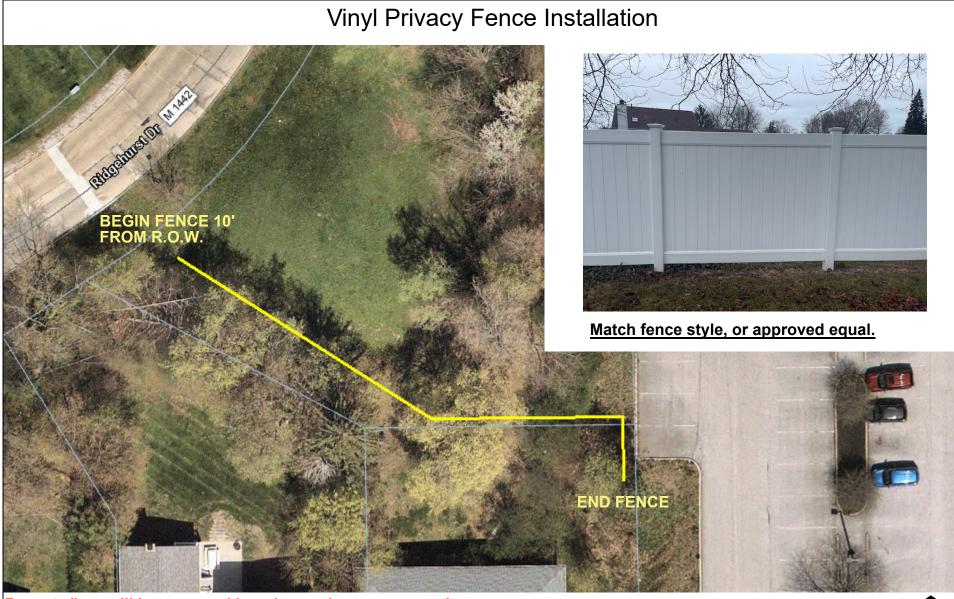
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			TATE OF OH	SCALE: HOR. <u>1"=20'</u> VERT. <u>N/A</u>
				FOLDER: <u>DWG/Proj. Engineering</u>
			T P YAGERSZ, JR C P P P P P P P P P P P P P P P P P P	FILENAME: Improvement Plans
				TAB: 07-Details
			CONSTER CO	BNDY. CHK: <u>RAT-10/23/2023</u>
			ONAL	BASE. CHK: <u>XXX-xx/xx/20xx</u>
				A











Property lines will be surveyed by others prior to construction. +/- 175 LF of Six (6') Foot Vinyl Fence

