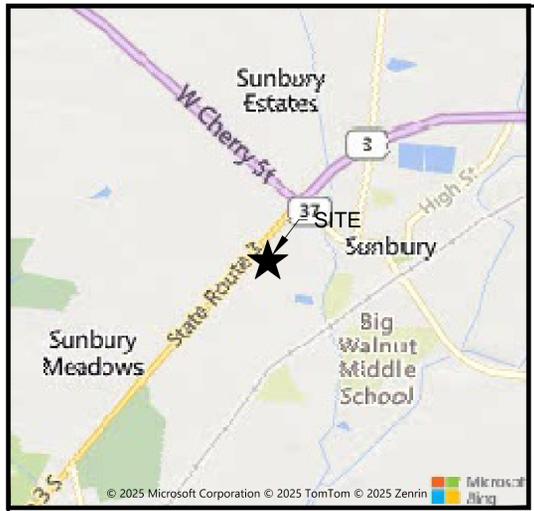


# UDF SUNBURY

**PROJECT DESCRIPTION:**  
CONSTRUCTION OF A 10,000 SQ. FT. OFFICE BUILDING, SIDEWALKS, PARKING LOT, STORM WATER MANAGEMENT FACILITIES, AND UTILITY SERVICES.



**VICINITY MAP**  
NOT TO SCALE

INDEX OF SHEETS											
DESCRIPTION	PAGE	ISSUED	REV 1	REV 2	REV 3	REV 4	REV 5	REV 6	REV 7	REV 8	REV 9
CIVIL TITLE SHEET	C1	DEC 01, 2025									
CIVIL GENERAL NOTES	C2	DEC 01, 2025									
DEMOLITION PLAN	C3	DEC 01, 2025									
LAYOUT PLAN	C4	DEC 01, 2025									
UTILITY PLAN	C5	DEC 01, 2025									
GRADING PLAN	C6	DEC 01, 2025									
DETAILS	C7	DEC 01, 2025									
DETAILS	C8	DEC 01, 2025									

## ABBREVIATION LEGEND

ABBREVIATION	DESCRIPTION
BLDG	BUILDING
BL	BUILDING LINE
BM	BENCHMARK
CB	CATCH BASIN
CO	CLEAN OUT
CONC	CONCRETE
CP	CONTROL POINT
DE	DRAINAGE EASEMENT
E	EAST, EASTING
ELEV	ELEVATION
EX	EXISTING
FF	FINISHED FLOOR
FO	FIBER OPTIC
FM	FORCE MAIN
FND	FOUNDATION
FT	FOOT, FEET
HW	HEADWALL
IMPERV	IMPERVIOUS
ICW	INTEGRAL CURB AND WALK
INV	INVERT
LAT	LATERAL
LL	LOWER LEVEL
MH	MANHOLE
MON	MONUMENT
N	NORTH, NORTHING
NE	NORTHEAST
NW	NORTHWEST
OC	ON CENTER
OFF	OFFSET
RCP	ROCK CHANNEL PROTECTION, REINFORCED CONCRETE PIPE
R/W	RIGHT OF WAY
S	SOUTH
SAN	SANITARY
SE	SOUTHEAST
STA	STATION
STM	STORM
SW	SOUTHWEST
TBR	TO BE REMOVED
TC	TOP OF CURB
T/GR	TOP OF GRATE
T/RIM	TOP OF RIM
TYP	TYPICAL
UD	UNDERDRAIN
UE	UTILITY EASEMENT
VIT	VITRIFIED
W	WEST
WM	WATER MAIN
WS	WATER SERVICE

SYMBOL LEGEND		
EXISTING	PROPOSED	DESCRIPTION
		BENCHMARK
		IRON PIN
		MONUMENT BOX
		PK NAIL
		MAG NAIL
		DRILL HOLE
		MONUMENT SPIKE
		TACKED HUB
		CATCH BASIN
		CURB INLET
		STORM MANHOLE
		SANITARY MANHOLE
		CLEANOUT
		ELECTRIC RISER/PULL BOX
		ELECTRIC METER
		ELECTRIC MANHOLE
		ELECTRIC TRANSFORMER
		GAS METER
		GAS MARKER
		GAS VALVE
		POWER POLE
		LIGHT POLE
		POWER/LIGHT POLE
		TELEPHONE POLE
		GUY WIRE
		TELEPHONE PEDESTAL
		FIRE HYDRANT
		WATER GATE VALVE
		WATER METER
		WATER MANHOLE
		STUMP
		SHRUB
		TREE-DECIDUOUS
		TREE-EVERGREEN
		AIR CONDITIONER
		MAIL BOX
		POST
		SATELLITE DISH
		SPRINKLER HEAD
		SIGN
		SIGNAL

**SITE ADDRESS**  
303 W GRANVILLE STREET  
SUNBURY, OHIO 43074  
DELAWARE COUNTY

ZONING: PID (PLANNED INDUSTRIAL DISTRICT)  
FLOOD ZONE: X (NOT MAPPED)



ODOT STANDARD CONSTRUCTION DRAWINGS			
DRAWING	DATE	DRAWING	DATE
BP-4.1	07/19/13	DM-1.2	07/16/21
BP-5.1	07/15/22	DM-2.1	01/18/13
BP-7.1	01/21/22	DM-4.4	01/15/16
CB-2-2ABC	07/15/22	HW-1.1	07/20/18
CB-2-34	07/16/21	MH-3	07/16/21
CB-3	07/16/21	RM-2.1	07/19/13
CB-6	01/21/22		

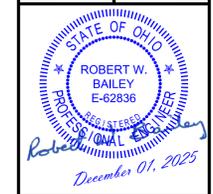


**UNDERGROUND UTILITIES**  
Contact Two Working Days Before You Dig

**OHIO811.org**  
Before You Dig

**OHIO811, 8-1-1, or 1-800-362-2764**  
(Non-members must be called directly)

LINETYPE LEGEND					
EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		INDEX CONTOURS			FIBER OPTIC
		INTERMEDIATE CONTOURS			GAS
		CABLE			TELEPHONE
		ELECTRIC			SANITARY
		OVERHEAD ELECTRIC			FORCE MAIN
		OVERHEAD CABLE			SANITARY LATERAL
		OVERHEAD TELEPHONE			WATER
		OVERHEAD UTILITIES			WATER SERVICE



**OWNER**  
UDF  
303 WEST GRANVILLE STREET  
SUNBURY, OH 43074

**ARCHITECT**  
K4 ARCHITECTURE, LLC  
555 GEST STREET  
CINCINNATI, OH 45203  
PHONE: (513)817-9246

**CIVIL ENGINEER**  
CIVIL SOLUTIONS ASSOCIATES, INC.  
7450 INDUSTRIAL PARKWAY, UNIT B  
PLAIN CITY, OHIO 43064  
PHONE: (513)538-0253

**LANDSCAPE ARCHITECT**  
LANDSCAPES BY TERRA  
11301 WATKINS-CALIFORNIA RD  
MARYSVILLE, OHIO 43040  
PHONE: (614) 873-6242  
LANDSCAPESBYTERRA.COM

**SURVEYOR**  
SMART SERVICES  
1900 CROWN PARK CT  
COLUMBUS, OHIO 43235  
PHONE: (614) 914-5543  
SMARTSERVICES-INC.COM

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**UDF SUNBURY**  
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SUNBURY, OHIO 43074  
DELAWARE COUNTY

**CIVIL TITLE SHEET**

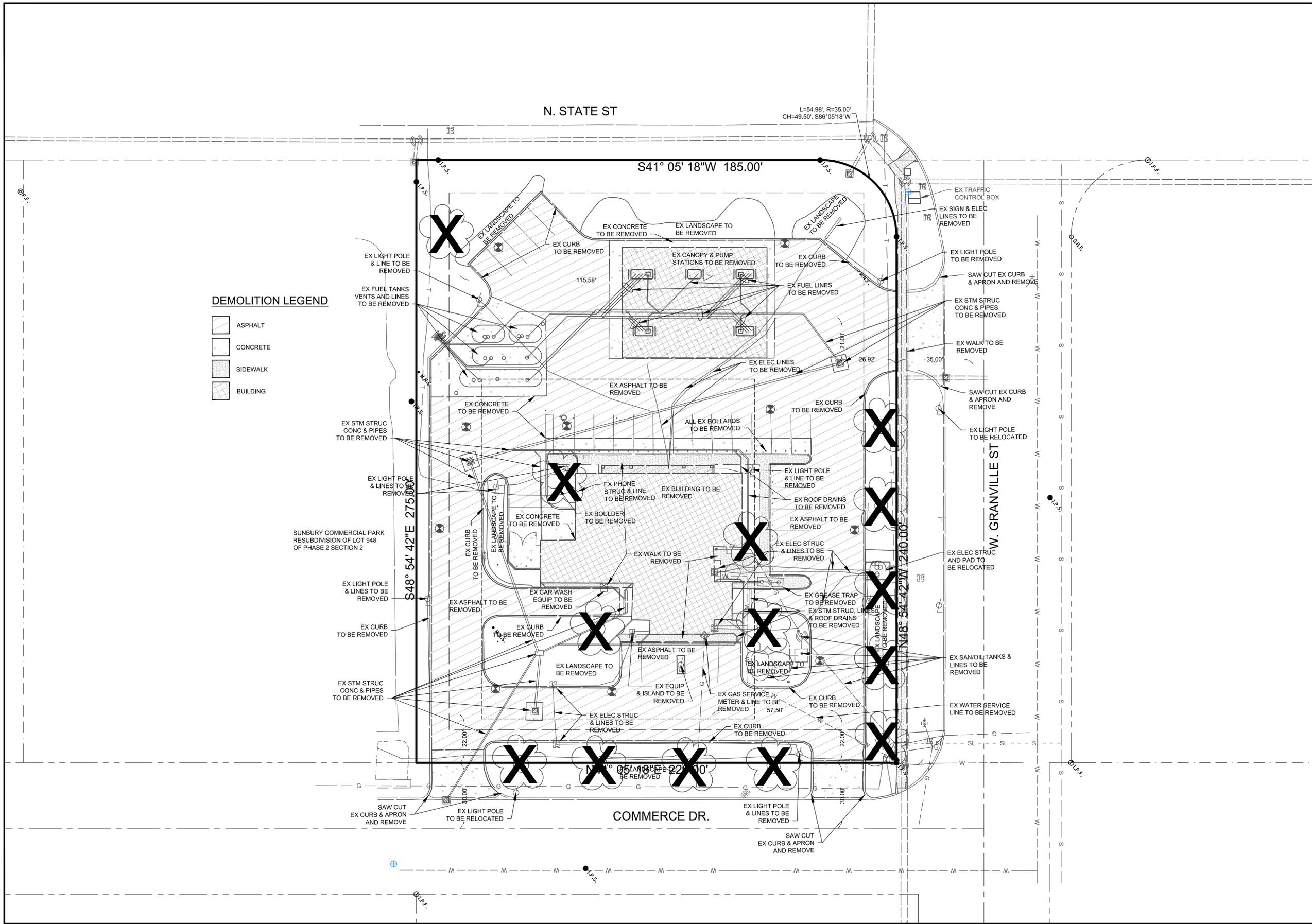
FILE: 25-3013 CD.dwg  
ISSUED: DEC 01, 2025

**C1**

PLOTTED: Dec 01, 2025, 1:35pm PLOTTED BY: rbailey  
DRAWING: S:\25-3013 UDF Sunbury\CIVIL\UDF\25-3013 CD.dwg: C01 TITLE UDF

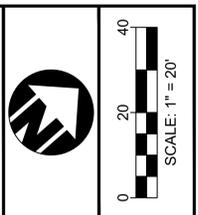


PLOTTED: Dec 01, 2025 - 2:13pm PLOTTED BY: rbailey  
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**DEMOLITION LEGEND**

-  ASPHALT
-  CONCRETE
-  SIDEWALK
-  BUILDING



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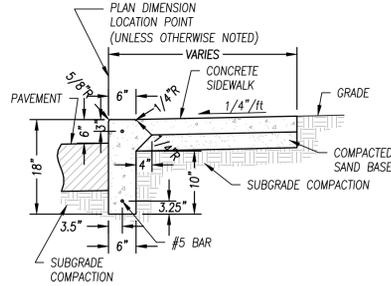
**UDF SUNBURY**  
 303 W GRANVILLE STREET  
 SUNBURY, OHIO 43074  
 DELAWARE COUNTY

**DEMOLITION PLAN**

FILE: 25-3013 CD.dwg  
 ISSUED: DEC 01, 2025

**C3**

PLOTTED: Dec 01, 2025 - 2:14pm PLOTTED BY: rbailey  
 DRAWING: S:25-3013 UDF Sunbury\civil\dwg\25-3013 CD.dwg: C04 LAYOUT UDF

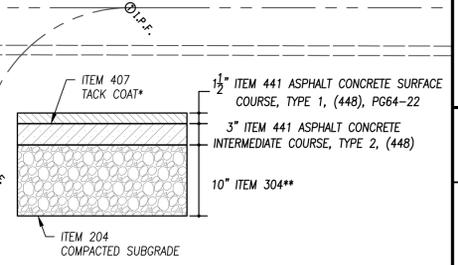
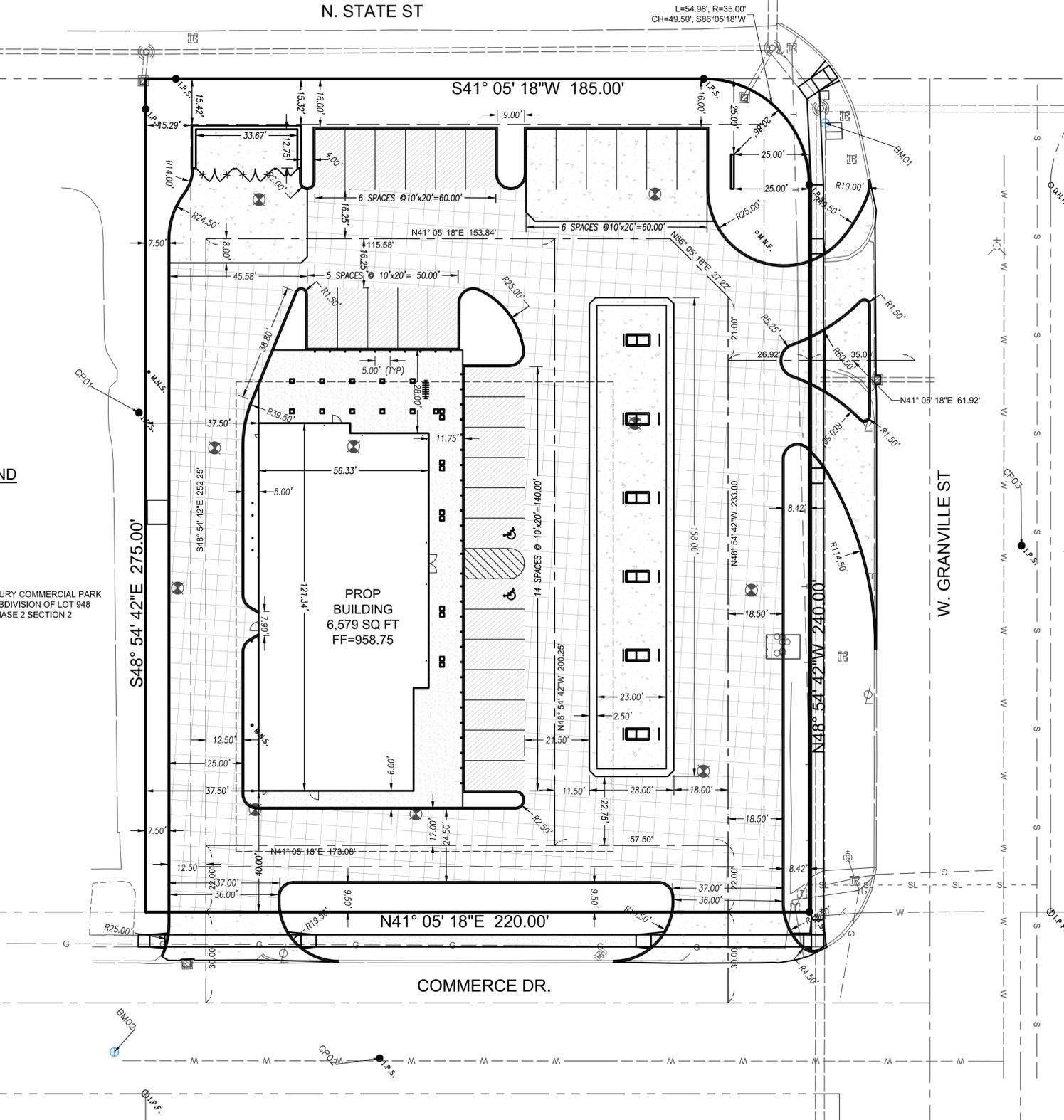


**INTEGRAL CURB AND WALK**

**PAVEMENT LEGEND**

- HEAVY ASPHALT
- LIGHT ASPHALT
- CONCRETE
- SIDEWALK

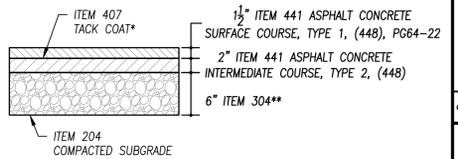
SUNBURY COMMERCIAL PARK  
 RESUBDIVISION OF LOT 948  
 OF PHASE 2 SECTION 2



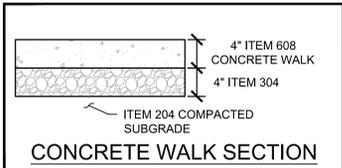
\* ITEM 407 TACK COAT TO BE PLACED BETWEEN ASPHALT LAYERS WHEN PAVEMENT HAS BEEN SUBJECTED TO TRAFFIC BEFORE UPPER LAYERS OF ASPHALT ARE PLACED. APPLICATION RATE TO BE A MINIMUM OF 0.100 GAL/SQ YD.

\*\* ITEM 304, AGGREGATE BASE COURSE, SHALL BE CRUSHED CARBONATE (LIMESTONE) CONFORMING TO OHIO DEPARTMENT OF TRANSPORTATION SPECIFICATION 703.17

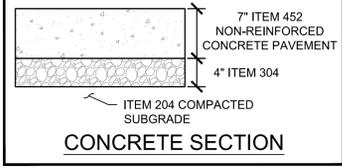
**HEAVY PAVEMENT SECTION**



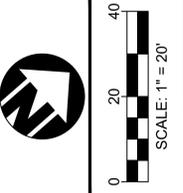
**LIGHT PAVEMENT SECTION**



**CONCRETE WALK SECTION**



**CONCRETE SECTION**



STATE OF OHIO  
 ROBERT W. BAILEY  
 E-62836  
 REGISTERED PROFESSIONAL ENGINEER  
 December 01, 2025

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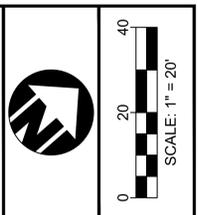
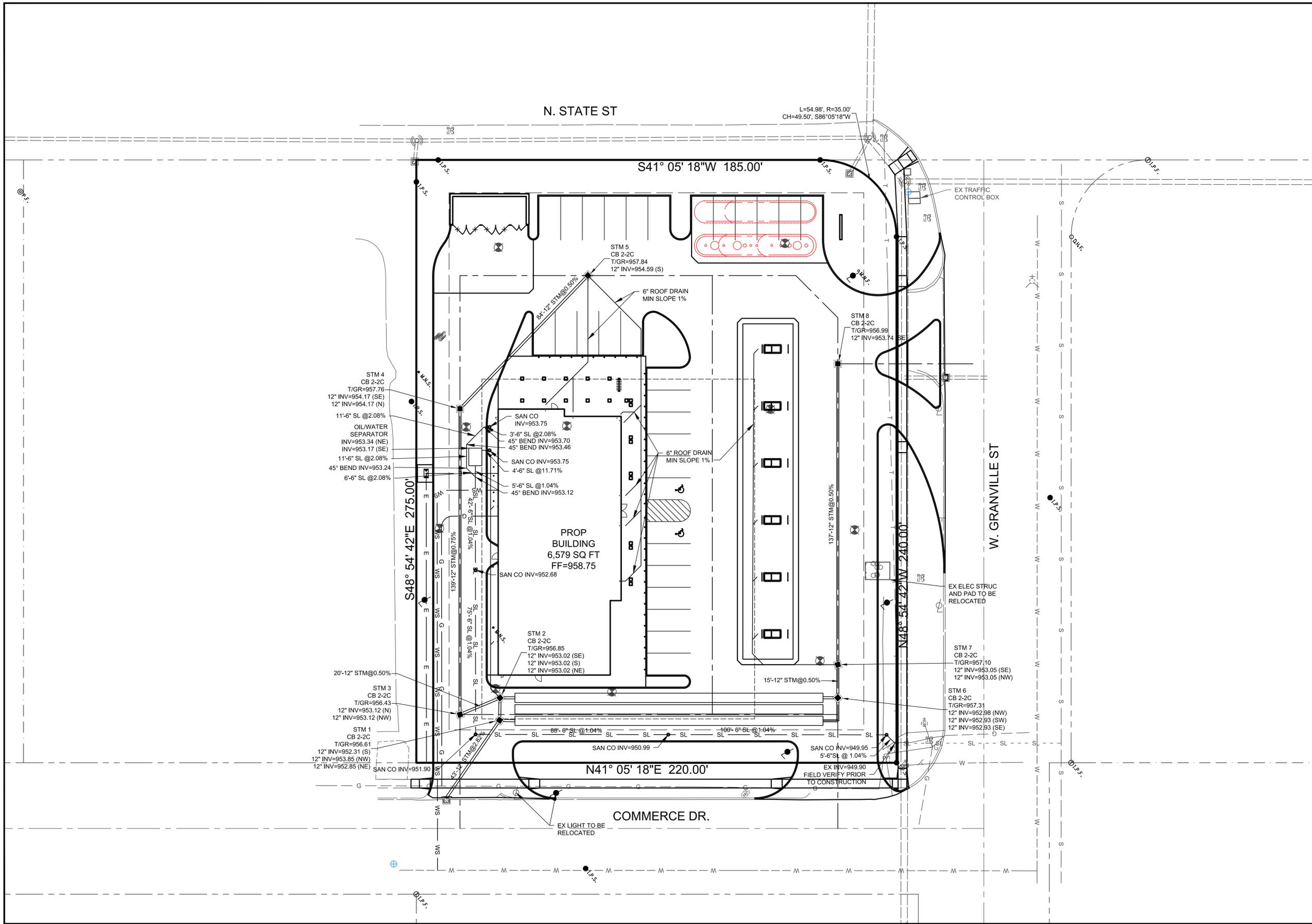
UDF SUNBURY  
 303 W GRANVILLE STREET  
 SUNBURY, OHIO 43074  
 DELAWARE COUNTY

LAYOUT PLAN

FILE: 25-3013 CD.dwg  
 ISSUED: DEC 01, 2025

**C4**

PLOTTED: Dec 01, 2025, 1:28pm PLOTTED BY: rbailey  
 DRAWING: S:\25-3013 UDF - Sunbury\Civil\dwg\25-3013 CD.dwg: C05 UTILITY UDF



STATE OF OHIO  
 REGISTERED PROFESSIONAL ENGINEER  
 ROBERT W. BAILEY  
 E-62836  
*Robert W. Bailey*  
 December 01, 2025

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UTILITY PLAN

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 ISSUED: DEC 01, 2025

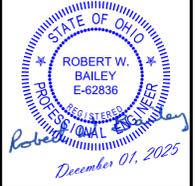
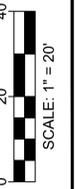
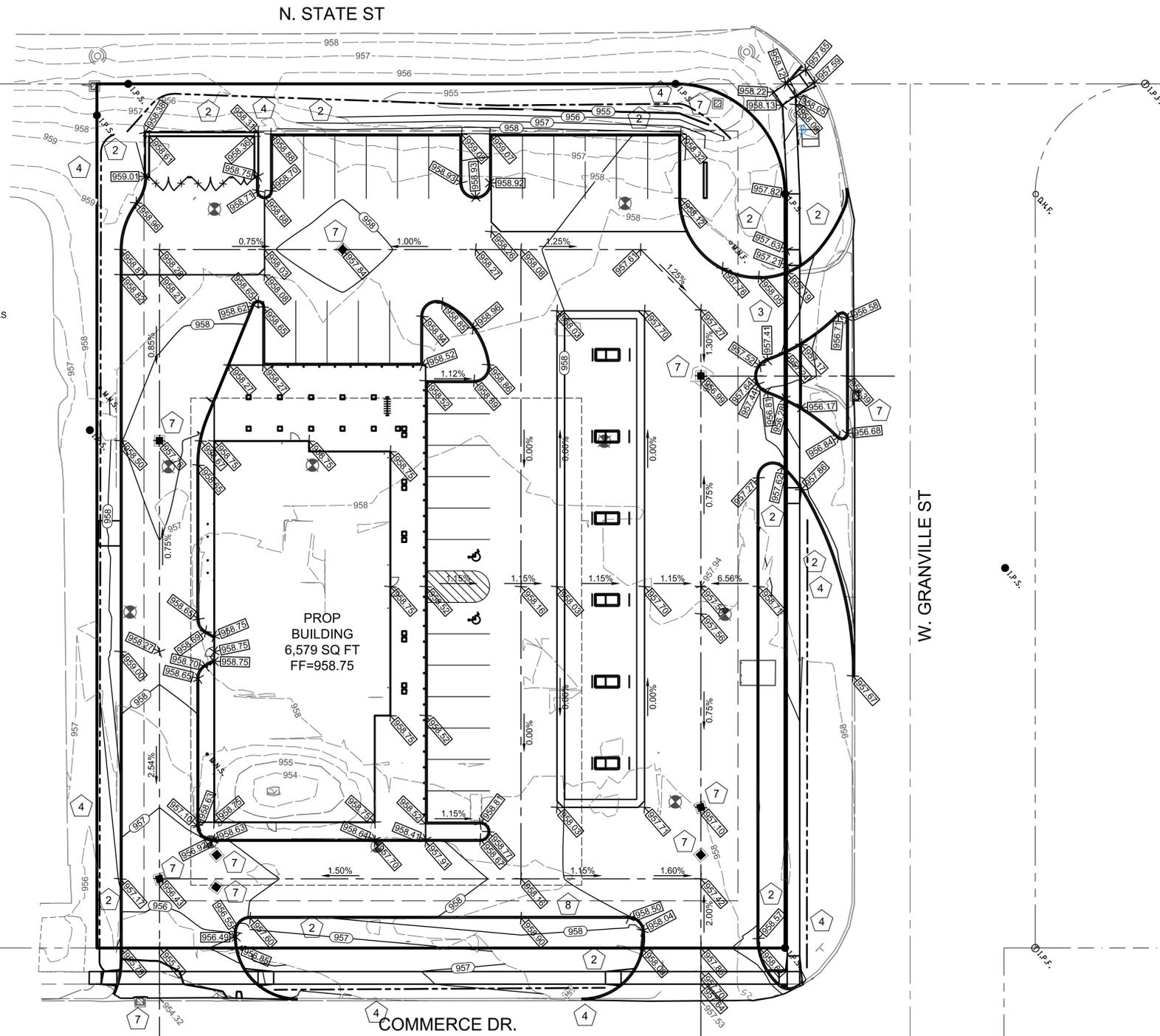
**C5**

PLOTTED: Dec 01, 2025 - 1:24pm PLOTTED BY: rbailey  
 DRAWING: S:25-3013 UDF Sunbury\civil\dwg\25-3013 GR.dwg: C06 GRADING UDF

**EROSION CONTROL LEGEND**

REFER TO EROSION AND SEDIMENT CONTROL DETAIL SHEET FOR DETAILS

- 2 SEEDING AND MULCHING
- 3 CONSTRUCTION ENTRANCE
- 4 SILT FENCE OR FILTER SOCK
- 7 MANUFACTURED INLET FILTER
- 8 CONCRETE TRUCK WASHOUT



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UDF SUNBURY

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 SUNBURY, OHIO 43074  
 DELAWARE COUNTY

GRADING PLAN

FILE: 25-3013 GR.dwg  
 ISSUED: DEC 01, 2025

**C6**

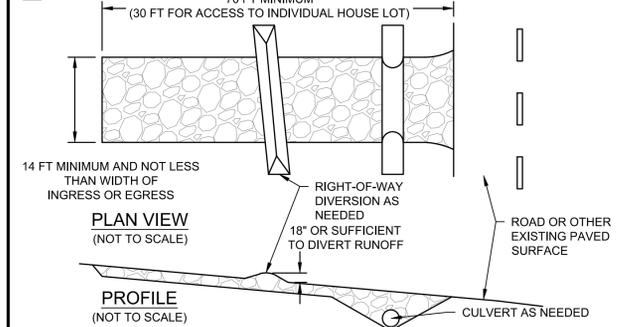
## 2 SEEDING AND MULCHING

- SPREAD 4 TO 6 INCHES OF TOPSOIL.
- FERTILIZE ACCORDING TO SOIL TEST (OR APPLY 10 LB./1000 SQ. FT. OF 20-10-10 OR 10-10-10 FERTILIZER.)
- SEED WITH AN APPROPRIATE MIX FOR THE SITE (SEE TABLE.) RAKE LIGHTLY TO COVER SEED WITH 1/4" OF SOIL. ROLL LIGHTLY.
- MULCH WITH STRAW (70-90 LB. OR ONE BALE PER 1000 SQ. FT.)
- ANCHOR MULCH BY PUNCHING 2 INCHES INTO THE SOIL WITH A DULL, WEIGHTED DISK OR BY USING NETTING OR OTHER MEASURES ON STEEP SLOPES, OR WINDY AREAS. WATER GENTLY EVERY DAY OR TWO TO KEEP SOIL MOIST. LESS WATERING IS NEEDED ONCE GRASS IS 2 INCHES TALL.

TEMPORARY SEEDING SPECIES SELECTION			
SEEDING DATES	SPECIES	LB./1,000 FT <sup>2</sup>	LB./ACRE
MARCH 1 TO AUGUST 15	OATS	3	128 (4 BUSHEL)
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	PERENNIAL RYEGRASS	1	40 LB.
	TALL FESCUE	1	40 LB.
AUGUST 16 TO NOVEMBER 1	ANNUAL RYEGRASS	1.25	55
	PERENNIAL RYEGRASS	3.25	142
	CREeping RED FESCUE	0.4	17
	KENTUCKY BLUEGRASS	0.4	17
	RYE	3	112 (2 BUSHEL)
NOVEMBER 1 TO FEBRUARY 29	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	WHEAT	3	120 (2 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.	
PERENNIAL RYEGRASS	1.25	40	
PERENNIAL RYEGRASS	3.25	40	
CREeping RED FESCUE	0.4	40	
KENTUCKY BLUEGRASS	0.4	40	

NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED. PERMANENT SEEDING TO BE AS PER LANDSCAPING PLANS

## 3 CONSTRUCTION ENTRANCE



- STONE SIZE - ODOT #2 (1.5 - 2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS).
- THICKNESS - THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
- WIDTH - THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL FINAL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCURS.
- GEOTEXTILE - A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG, ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

GEOTEXTILE SPECIFICATION FOR CONSTRUCTION ENTRANCE	
MINIMUM TENSILE STRENGTH	200 LBS.
MINIMUM PUNCTURE STRENGTH	80 PSI.
MINIMUM TEAR STRENGTH	50 LBS.
MINIMUM BURST STRENGTH	320 PSI.
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS < 0.6 MM.
PERMITTIVITY	1x10-3 CM/SEC.

- TIMING - THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
- CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
- WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
- MAINTENANCE - TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND, MUD SPILLED, DROPPED, WASHED, OR TRACKED ONLY PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
- CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
- REMOVAL - THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

## 4 SILT FENCE

MATERIALS:

- FENCE POST - THE LENGTH SHALL BE A MINIMUM OF 32 INCHES. WOOD POSTS WILL BE 2-BY-2-IN. NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS, AND OTHER VISIBLE IMPERFECTIONS THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT. POSTS SHALL BE DRIVEN A MINIMUM 16 INCHES INTO THE GROUND, WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER LOADING.
- FILTER FABRIC SHALL MEET THE REQUIREMENTS OF CMS 712.09, TYPE C, SUPPORT STAKES. THE STAKES SHALL BE DRIVEN A MINIMUM OF 6" BELOW THE BOTTOM OF THE FILTER FABRIC.
- SILT FENCE FABRIC - SEE CHART.

INSTALLATION:

- ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
- THE ENDS OF ADJACENT SECTIONS OF FENCE SHALL BE OVERLAPPED WITH THE END STAKE OF EACH SECTION WRAPPED TOGETHER PRIOR TO INSTALLATION. (SEE DETAILS.) THE GROUND ELEVATION OF THE FENCE SHALL BE HELD CONSTANT EXCEPT THAT THE END ELEVATIONS SHALL BE RAISED UPSLOPE TO PREVENT FLOW AROUND THE END OF THE FENCE.

MATERIALS:

- SILT FENCE SHALL BE PLACED PARALLEL TO THE CONTOUR OF THE LAND AND AT THE FLATTEST AREA AVAILABLE TO ALLOW WATER TO POND BEHIND FENCE.
- WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
- THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
- LEAVE NO GAPS BETWEEN SECTIONS OF SILT FENCE. INSPECT AND REPAIR ONCE A WEEK AND AFTER EVERY 1/2 INCH RAIN. REMOVE SEDIMENT IF DEPOSITS REACH HALF THE FENCE HEIGHT.

INSTALLATION:

- SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVER-TOPS THE SILT FENCE, FLOWS UNDER THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE:
  - THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED
  - ACCUMULATED SEDIMENT SHALL BE REMOVED
  - OTHER PRACTICES SHALL BE INSTALLED

MATERIALS:

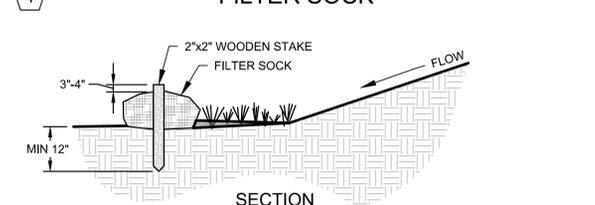
- SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE.
- THE FILTER FABRIC FENCE SHALL BE MAINTAINED TO BE FUNCTIONAL. THIS SHALL INCLUDE REMOVAL OF TRAPPED SEDIMENT AND REQUIRED CLEANING, REPAIR, AND REPLACEMENT OF THE FILTER FABRIC.
- SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS.
- IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.
- MAINTAIN UNTIL A LAWN IS ESTABLISHED.

REMOVAL:

- REMOVE SILT FENCE ONCE THE AREA UPSLOPE OF THE SILT FENCE HAS BEEN STABILIZED WITH PERMANENT INSTALLATIONS SUCH AS PAVEMENT, BUILDINGS, LANDSCAPING, OR OTHER VEGETATION.

MINIMUM CRITERIA FOR SILT FENCE FABRIC		
FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS (535 N)	ASTM D 4632
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 LBS (180 N)	ASTM D 4533
APPARENT OPENING SIZE	≤ 0.84 MM	ASTM D 4751
MINIMUM PERMITTIVITY	1x10 <sup>-2</sup> SEC. <sup>-1</sup>	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM G 4355

## 4 FILTER SOCK



SECTION (NOT TO SCALE)

MATERIALS:

- COMPOST USED FOR FILTER SOCKS SHALL BE WEED, PATHOGEN, AND INSECT FREE AND FREE OF ANY REFUSE, CONTAMINANTS, OR OTHER MATERIALS TOXIC TO PLANT GROWTH. THEY SHALL BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER AND CONSIST OF PARTICLES RANGING FROM 3/8" TO 2".
- FILTER SOCKS SHALL BE 3 OR 5 MIL CONTINUOUS, TUBULAR, HDPE 3/8" KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST PASSING THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS.
- FILTER SOCKS WILL BE PLACED ON A LEVEL LINE ACROSS SLOPES, GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS NEEDED MID-SLOPE.
- FILTER SOCKS INTENDED TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, SHALL BE SEEDED

INSTALLATION:

- AT THE TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION.
- FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN RUNOFF CHANNELS.
- ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
- REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS WHEN THEY REACH 1/2 OF THE EXPOSED HEIGHT OF THE PRACTICE.
- WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
- REMOVAL: FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH A WAY AS TO FACILITATE AND NOT OBSTRUCT SEEDINGS.

## 7 MANUFACTURED INLET FILTER

MATERIALS:

- INLET FILTERS ARE TO BE MANUFACTURED FROM WOVEN MONOFILAMENT FABRIC MATERIALS MEETING THE REQUIREMENTS OF THE TABLE BELOW.

INSTALLATION:

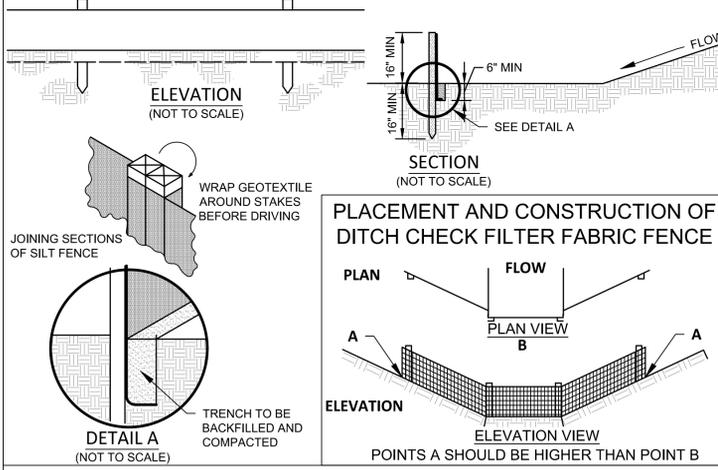
- STAND GRATE ON END AND PLACE THE BAG OVER THE GRATE.
- ROLL THE GRATE OVER SO THAT THE OPEN END IS UP AND PULL UP THE SLACK.
- TUCK THE FLAP IN AND PRESS THE HOOK AND LOOP STRIPS TOGETHER MAKING SURE THAT THE END OF THE GRATE IS COMPLETELY COVERED BY THE FLAP.
- CAREFULLY PLACE THE BAG WITH THE GRATE INSERTED INTO THE CATCH BASIN FRAME USING THE LIFTING HANDLES.

MAINTENANCE:

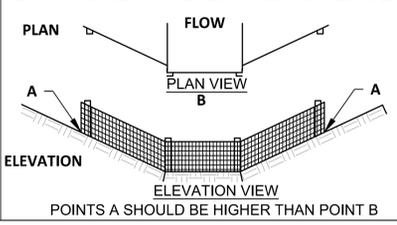
- ROUTINELY INSPECT INLET FILTERS AFTER EACH SIGNIFICANT RAIN, MAINTAINING INLET FILTERS IN A FUNCTIONAL CONDITION AT ALL TIMES.
- REMOVE SILT, SEDIMENT, AND DEBRIS FROM THE SURFACE AND THE VICINITY OF THE UNIT WITH A SQUARE POINT SHOVEL OR STIFF BRISTLE BROOM. REMOVE FINE MATERIAL FROM INSIDE THE FILTER BAG AS NEEDED.
- KEEP MATERIAL AWAY FROM ENVIRONMENTALLY SENSITIVE AREAS AND WATERWAYS IN A MANNER SATISFACTORY TO THE ENGINEER/INSPECTOR.
- REPLACE AND DISPOSE OF FILTER BAGS DAMAGED WHICH ARE NO LONGER EFFECTIVE.
- WHERE THE INLET FILTER DETERIORATES OR FAILS, IT SHALL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE SOLUTION.
- REMOVE INLET FILTERS FROM THE SITE WHEN NO LONGER REQUIRED.

INLET FILTER SPECIFICATIONS		
MECHANICAL PROPERTIES	TEST METHOD	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	365 LBS X 200 LBS
GRAB TENSILE ELONGATION	ASTM D 4632	24% X 10%
PUNCTURE STRENGTH	ASTM D 4833	90 LBS
MULLEN BURST STRENGTH	ASTM D 3786	450 PSI
TRAPEZOID TEAR STRENGTH	ASTM D 4533	115 LBS X 75 LBS
UV RESISTANCE	ASTM D 4355	90 %
APPARENT OPENING SIZE	ASTM D 4751	NO 40 (US STD SIEVE)
FLOW RATE	ASTM D 4491	145 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D 4491	2.1/SEC

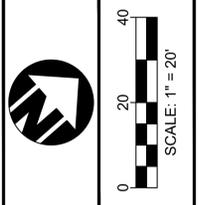
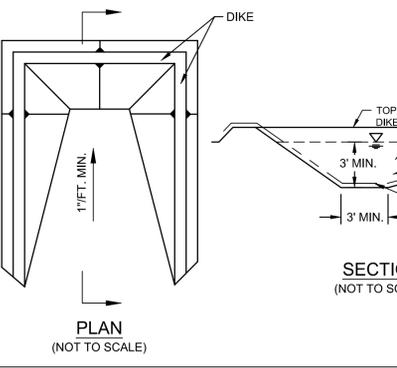
## CONSTRUCTION OF A FILTER BARRIER



## PLACEMENT AND CONSTRUCTION OF DITCH CHECK FILTER FABRIC FENCE



## 8 CONCRETE TRUCK WASHOUT



STATE OF OHIO  
ROBERT W. BAILEY  
E-62836  
REGISTERED PROFESSIONAL ENGINEER  
December 01, 2025

NO	DATE	REVISION
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SUNBURY, OHIO 43074  
DELAWARE COUNTY

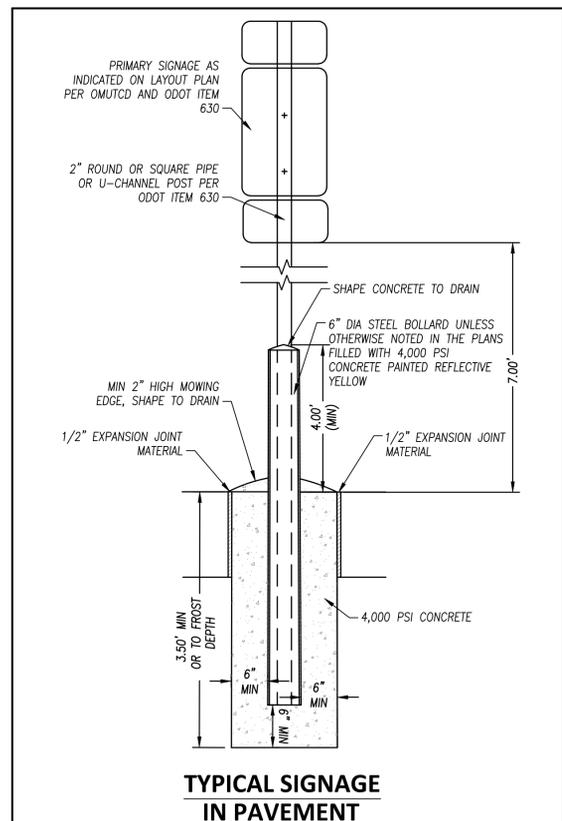
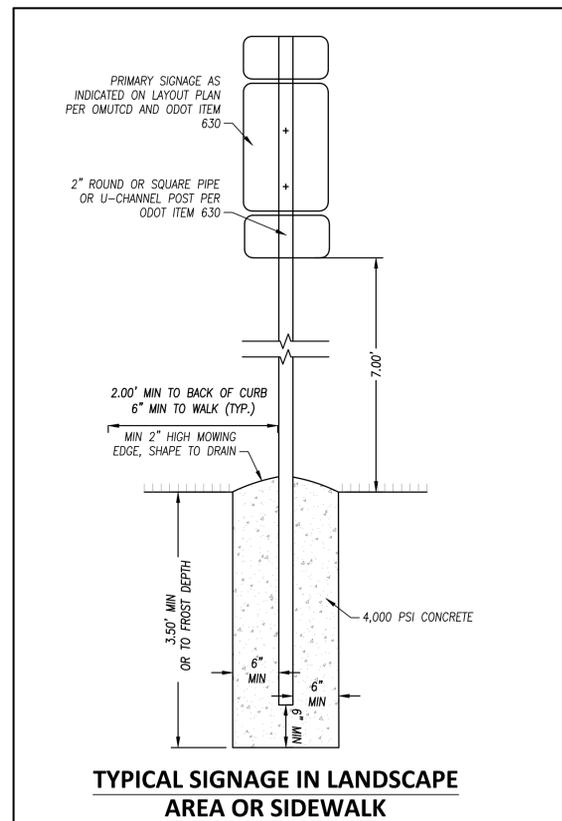
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## SEDIMENT AND EROSION CONTROL

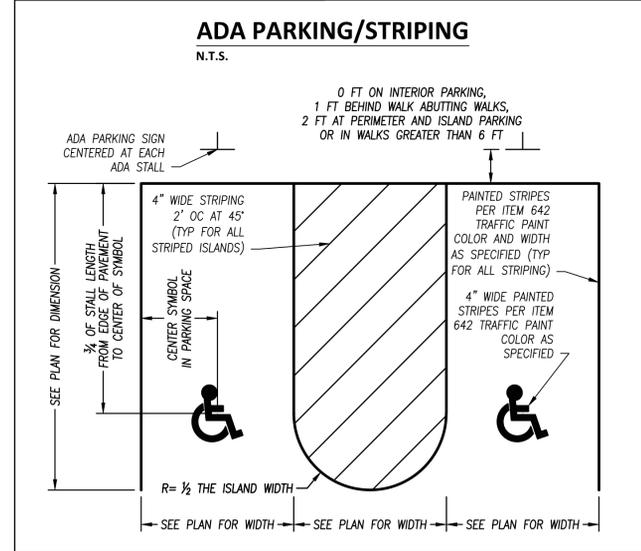
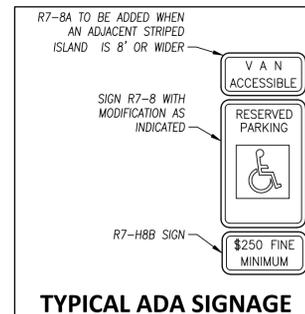
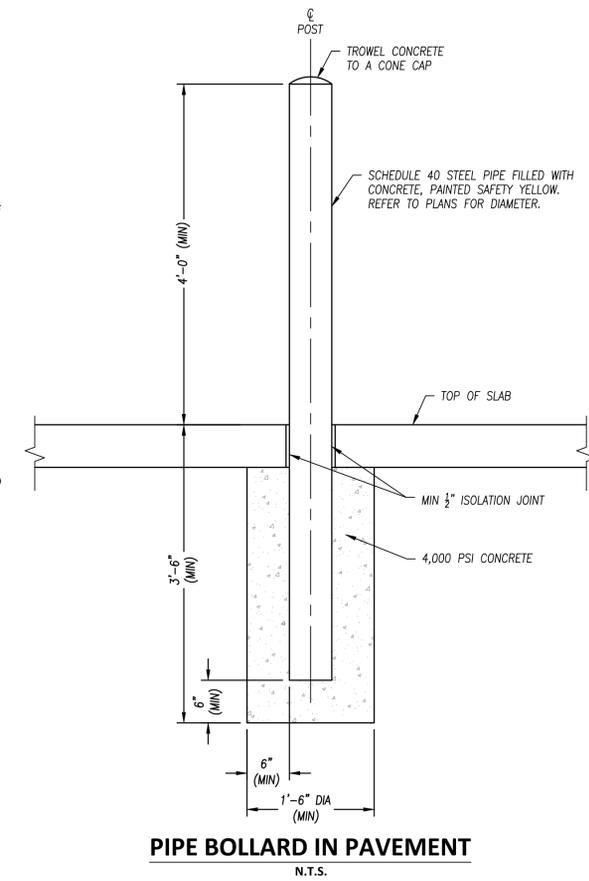
- CONTRACTOR SHALL CONFORM WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND ALL PLANS AND SPECIFICATIONS REGARDING SOIL EROSION/SEDIMENTATION CONTROL REQUIREMENTS.
- CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL PRACTICES AS PER THE PLAN AND AS REQUIRED BY THE LOCAL JURISDICTION AND THE OHIO ENVIRONMENTAL PROTECTION AGENCY. THE EROSION CONTROL MEASURES SHALL BE INSTALLED PER THE CURRENT EDITION OF THE OHIO RAINWATER AND LAND DEVELOPMENT HANDBOOK AND TO THE SATISFACTION OF THE LOCAL JURISDICTION.
- CONTRACTOR SHALL NOTIFY THE LOCAL GOVERNING AGENCY AT LEAST THREE (3) DAYS PRIOR TO STARTING CONSTRUCTION FOR PURPOSES OF MONITORING SOIL EROSION AND BMP MEASURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND UPDATING THE STORM WATER POLLUTION PREVENTION PLAN (SWP3) THROUGHOUT CONSTRUCTION PER THE NPDES PERMIT.
- THE PLANS HEREIN CONTAIN THE INFORMATION REQUIRED TO MEET THE REVIEWING AGENCY'S SWP3 REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADDITIONAL DETAILS AND INFORMATION IF REQUIRED DURING THE CONSTRUCTION OF THE PROJECT.
- BORROW AND WASTE DISPOSAL AREAS SHALL BE SELECTED WITH FULL CONSIDERATION FOR SOIL EROSION AND SEDIMENT CONTROL. ALL BORROW AND WASTE DISPOSAL AREAS ARE INCLUDED IN THE NPDES PERMIT AND ARE REQUIRED TO BECOME A PART OF THE SWP3 UNLESS COVERED BY A SEPARATE NPDES PERMIT.
- ANY PARTY WHO HAS DAY-TO-DAY OPERATIONAL CONTROL OF ACTIVITIES WHICH ARE NECESSARY TO ENSURE COMPLIANCE WITH THE SWP3 FOR THIS PROJECT, OR OTHER CONDITIONS AS SET FORTH IN THE PERMIT, MUST FILE A CO-PERMITTEE NOTICE OF INTENT (NOI) WITH THE OHIO EPA. THIS IS THE SOLE RESPONSIBILITY OF THE CO-PERMITTEE AND SHOULD BE DONE 21 DAYS BEFORE GROUND IS BROKEN. THIS INCLUDES, BUT IS NOT LIMITED TO, THE GENERAL CONTRACTOR.
- SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED BY A QUALIFIED INSPECTOR ONCE EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS OF EVERY 0.5" OR GREATER RAINFALL. A WRITTEN LOG OF THESE INSPECTIONS SHALL BECOME PART OF THE SWP3. THIS LOG SHOULD INDICATE THE DATE OF INSPECTION, NAME OF INSPECTOR, WEATHER CONDITIONS, OBSERVATIONS, ACTIONS TAKEN TO CORRECT ANY PROBLEMS AND THE DATE ACTION WAS TAKEN. FURNISH THE OWNER, OWNER'S REPRESENTATIVE, AND ENGINEER WITH WRITTEN REPORTS UNLESS OTHERWISE DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE. INSPECTION RECORDS SHALL BE KEPT BY THE PERMITTEE FOR A PERIOD OF 3 YEARS AFTER TERMINATION OF CONSTRUCTION ACTIVITIES.
- THE PROJECT HAS BEEN DESIGNED TO CONTROL EROSION AND PREVENT DAMAGE TO OTHER PROPERTY. ALL STRIPPING, EARTHWORK, AND GRADING SHALL BE PERFORMED TO MINIMIZE EROSION. NATURAL VEGETATION SHALL BE RETAINED WHEREVER POSSIBLE. THE PROPOSED PLAN WILL ALLOW MOST ERODED MATERIALS TO BE RETAINED ON SITE.
- SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT OPERATIONS WHICH PROMOTE EROSION.
- THE CONTRACTOR IS TO IMPLEMENT BEST MANAGEMENT PRACTICES (BMP) INCLUDING, BUT NOT LIMITED TO, EROSION CONTROL MEASURES AS SHOWN IN THE DRAWINGS. EROSION CONTROL MEASURES MAY BE IMPLEMENTED AND LOCATIONS ADJUSTED AS NEEDED TO FACILITATE CONSTRUCTION PROVIDED THE SWP3 PLAN IS UPDATED ACCORDINGLY AND THE INTENT OF THE PLAN IS MET.
- SOLID, SANITARY AND TOXIC WASTE MUST BE DISPOSED OF IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. IT IS PROHIBITED TO BURN, BURY, OR POUR INTO THE GROUND, SANITARY, OR STORM SEWER SYSTEMS ANY SOLVENTS, PAINTS, STAINS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FUEL, ANTIFREEZE, CEMENT CURING COMPOUNDS, AND OTHER SUCH TOXIC OR HAZARDOUS WASTES.
- WASH OUT OF CEMENT TRUCKS SHOULD OCCUR IN A DIKED, DESIGNATED AREA OR INTO PORTABLE MANUFACTURED WASHOUT BAGS SUCH AS THE LINED READY MIX BAGS MANUFACTURED BY ENVIRO SYSTEMS, INC., OR EQUIVALENT, WHERE THE WASTEWATER CAN BE COLLECTED AND DISPOSED OF PROPERLY AFTER IT HARDENS.
- STORAGE TANKS SHOULD BE LOCATED IN A DIKED AREA WHICH HOLDS A MINIMUM VOLUME OF 110% OF THE LARGEST TANK OR OTHER APPROVED METHODS SHALL BE USED SUCH AS DOUBLE WALLED TANKS OR STORAGE BINS.
- LOCATION OF DUMPSTERS, WASHOUT AREAS, AND CONTRACTOR PROCEDURES ARE SUBJECT TO SUPERVISION BY THE FEDERAL, STATE, AND LOCAL AUTHORITIES.
- CONTRACTOR SHALL DESIGNATE ANY SITE DUMPSTER AND WASH AREAS PRIOR TO STARTING CONSTRUCTION FOR SUCH PURPOSES AS WASHING OUT CONCRETE TRUCKS AND DUMPING NON-HAZARDOUS WASTE MATERIALS.
- HAZARDOUS WASTES ARE TO BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF CONSISTENT WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
- ALL CATCH BASINS AND INLETS NEAR DISTURBED AREAS SHALL HAVE TEMPORARY INLET PROTECTION SEDIMENT BARRIERS PLACED AND MAINTAINED THROUGHOUT CONSTRUCTION TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEMS WHETHER SHOWN IN THE DRAWINGS OR NOT.
- SOIL EROSION AND SEDIMENTATION BMP MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CONSTRUCTION AND SHALL BE MAINTAINED AT ALL TIMES UNTIL CONSTRUCTION HAS BEEN COMPLETED, INCLUDING GRASS BEING WELL ESTABLISHED AND/OR PERMANENT EROSION AND SEDIMENTATION BMP MEASURES INSTALLED AND OPERATIONAL. ALL BMP MEASURES SHALL BE TO THE SATISFACTION OF THE APPROVING AGENCIES.
- ANY DETENTION OR RETENTION AREAS AND ANY PERIMETER CONTROLS SHALL BE IMPLEMENTED WITHIN SEVEN (7) DAYS OF FIRST GRUBBING AND SHALL REMAIN FUNCTIONAL UNTIL THE UP-SLOPE DEVELOPMENT AREA IS STABILIZED.
- STOCKPILED SOILS SHALL BE LEGALLY REMOVED FROM THE SITE OR COVERED WITH TEMPORARY SEED AND MULCH WITHIN SEVEN (7) DAYS AND SURROUNDED WITH SILT FENCE UNTIL SUCH TIME THAT IT CAN BE REUSED ON THE SITE.
- ALL AREAS AT FINAL GRADE OR WHERE CONSTRUCTION ACTIVITY IS EXPECTED TO TEMPORARILY CEASE FOR 21 DAYS OR LONGER SHALL BE STABILIZED WITHIN SEVEN (7) DAYS OF ACTIVITY.
- ALL GRASS AREAS ARE TO BE SEED AND STRAW MULCHED WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED.

- STRUCTURAL PRACTICES SHALL BE USED TO CONTROL EROSION AND TRAP SEDIMENTS FROM ALL SITES REMAINING DISTURBED FOR MORE THAN FOURTEEN DAYS.
- SEED AND MULCH ALL AREAS NOT SHOWN AS BUILDING OR PAVEMENT AND ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES UNLESS OTHERWISE NOTED IN THE PLANS.
- ALL STREETS MUST BE MAINTAINED DURING CONSTRUCTION. STREETS SHALL BE KEPT FREE OF MUD, DIRT, AND CONSTRUCTION DEBRIS. CONTRACTOR SHALL PROVIDE ROUTINE STREET SWEEPING TO ENSURE MINIMAL EROSION INTO THE PUBLIC STORM SEWER SYSTEM AND ROADWAY.
- CLEANUP SHALL BE CONDUCTED IN A MANNER TO ENSURE THAT EROSION MEASURES ARE NOT DISTURBED.
- THE GOVERNING AGENCIES MAY REQUIRE WORK TO BE STOPPED AND THE STORM DRAINAGE OUTLET TO BE PLUGGED IF CONDITIONS BECOME UNSATISFACTORY.
- ONCE CONSTRUCTION HAS BEEN COMPLETED AND THE SITE STABILIZED, ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE REMOVED. THE OWNER SHALL THEN PERFORM PERIODIC VISUAL INSPECTIONS OF THE STORM SEWERS, DETENTION BASIN, AND DETENTION OUTLET STRUCTURE FOR ANY SIGNS OF SEDIMENT AND DEBRIS ACCUMULATION, DISTRESS, OR FAILURE. OWNER SHALL CLEAN OUT SEDIMENT AND DEBRIS AND MAKE REPAIRS AS NECESSARY. IT IS RECOMMENDED THAT VISUAL INSPECTIONS BE DONE AT 3 MONTHS, 9 MONTHS, AND THEN ANNUALLY AFTER CONSTRUCTION IS COMPLETE.
- ALL CONTAMINATED SOILS MUST BE TREATED AND/OR DISPOSED OF IN EPA APPROVED SOLID WASTE MANAGEMENT FACILITIES OR HAZARDOUS WASTE TREATMENT, STORAGE, OR DISPOSAL FACILITIES. ANY CONTAMINATED SOILS SHALL BE PROTECTED TO PREVENT CONTAMINATION FROM BEING RELEASED FROM THE SITE THROUGH THE USE OF ONE OF THE FOLLOWING:
  - BERMS, TRENCHES, OR PITS
  - PUMPING RUNOFF INTO A SANITARY SEWER WITH PRIOR APPROVAL OF THE SANITARY SEWER OPERATOR.
  - PUMPING RUNOFF INTO A CONTAINER FOR TRANSPORT TO AN APPROPRIATE TREATMENT/DISPOSAL FACILITY.
  - COVERING AREAS OF CONTAMINATION WITH TARPS OR OTHER METHODS THAT PREVENT STORM WATER FROM COMING INTO CONTACT WITH THE CONTAMINATED MATERIAL.
- SPILLS OF HAZARDOUS MATERIALS WHICH ARE LESS THAN 25 GALLONS (INCLUDING PETROLEUM BASED AND CONCRETE CURING COMPOUNDS) SHALL BE CONTAINED AND REMOVED FROM THE SITE AND TREATED OR DISPOSED OF ACCORDING TO FEDERAL, STATE, AND LOCAL REGULATIONS.
- THE OHIO EPA (800) 282-9378, THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE SHALL ALL BE NOTIFIED WITHIN 30 MINUTES OF ALL SPILLS OF HAZARDOUS MATERIALS WHICH ARE GREATER THAN 25 GALLONS.
- THE SITE SHALL BE SUFFICIENTLY WATERED DURING CONSTRUCTION ACTIVITIES TO LIMIT THE AMOUNT OF DUST RELEASED INTO THE AIR, BUT NOT WATERED SO MUCH AS TO ENCOURAGE TRANSPORT OFF SITE BY TRACKING OR EROSION.



## COMMUNICATIONS (CONTINUED)

- POWER OR OTHER FOREIGN CONDUIT MUST BE SEPARATED FROM TELEPHONE CONDUIT BY A MINIMUM OF 12" OF EARTH OR 3" OF CONCRETE.
- CONDUIT MUST BE PLACED AT A MINIMUM DEPTH OF 24" AND A MAXIMUM OF 36".
- PROVIDE A 200# TEST PULL LINE IN CONDUIT.
- ALL BENDS MUST BE LONG, SWEEPING BENDS MADE OF RIGID GALVANIZED STEEL WITH A RADIUS NOT LESS THAN TEN TIMES THE INTERNAL DIAMETER OF CONDUIT. WITH A MAXIMUM OF 180 DEGREES OF BENDS BETWEEN PULLING POINTS. WHEN 180 DEGREES OF BENDS ARE REQUIRED, A PULL BOX WILL BE REQUIRED. STEEL BENDS SHALL BE JOINED TO PVC CONDUIT BY APPROPRIATE COUPLINGS TO CREATE A WATER TIGHT JOINT.
- PULL BOXES/HAND HOLES SHALL BE A MINIMUM OF TIER 22 RATED 24" X 36" X 18" IN-GROUND POLYMER CONCRETE JUNCTION BOXES WITH A BOLTED COVER AND AN OPEN BOTTOM ON A MINIMUM 12" STONE BASE. THE COVER SHALL BE PROVIDED WITH "COMMUNICATIONS" STAMP OR CAST INTO THE COVER. BOXES SHALL BE QUAZITE PG2436B18/PG2436HH00 OR EQUAL.
- CONDUIT ENTERING FROM BELOW GRADE POINT MUST EXTEND 4" ABOVE FINISHED FLOOR.
- PROVIDE A 3/4" PLYWOOD BACKBOARD FOR TELEPHONE COMPANY USE. DIMENSIONS TO BE PROVIDED BY THE SERVICE PROVIDER. BACKBOARD SHALL BE PAINTED ON ALL SIDES WITH TWO COATS OF NONCONDUCTIVE, FIRE-RETARDANT PAINT OR FIRE RETARDANT VIRGIN PLYWOOD IS ALSO ACCEPTABLE.
- PROVIDE A 110 VOLT 20 AMP DUPLEX OUTLET ON THE BACKBOARD.
- PROVIDE AT THE BACKGROUND LOCATION, A COILED INSULATED #6 GROUND WIRE CONNECTED TO THE ELECTRIC SERVICE GROUND, FOR THE PROPER GROUNDING OF TELEPHONE COMPANY CABLES, TERMINALS, AND EQUIPMENT.
- TERMINATION SPACE SHALL BE CONTINUALLY ACCESSIBLE, WELL -LIT, AND ENVIRONMENTALLY CLEAN.
- TERMINATION SPACE MUST CONTAIN A 20 AMP DUPLEX GROUNDED OUTLET FOR TESTING AND MAINTENANCE AND SHALL HAVE A MINIMUM MAINTENANCE AREA OF 36 INCHES IN FRONT OF ALL TELEPHONE BOARDS.
- CONDUIT MUST EXTEND 4" ABOVE FINAL GRADE AT THE CONNECTION TO THE UTILITY POLE.



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DETAILS

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