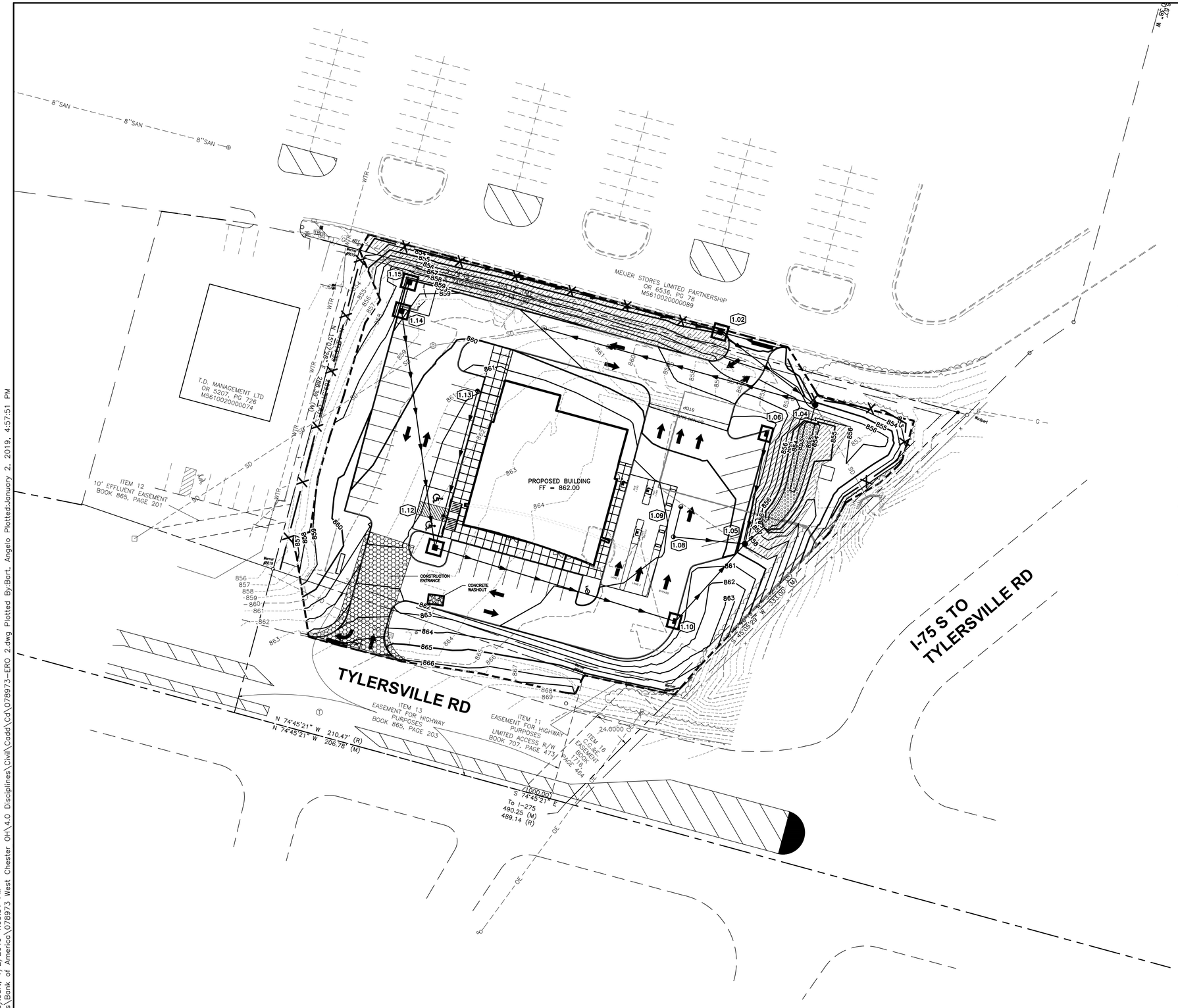


EROSION CONTROL LEGEND

- EXISTING 1' CONTOUR
- EXISTING 5' CONTOUR
- PROPOSED 1' CONTOUR
- PROPOSED 5' CONTOUR
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- PROPOSED CATCH BASIN WITH DANDY BAG
- EXISTING DRAINAGE STRUCTURE
- CONSTRUCTION LIMITS
- SILT FENCE
- EROSION CONTROL BLANKET
- CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT
- FLEXAMAT

EROSION CONTROL NOTES

1. THE EROSION CONTROL PLAN SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE. ALL MEASURES INVOLVING EROSION CONTROL PRACTICES SHALL BE INSTALLED UNDER THE GUIDANCE OF QUALIFIED PERSONNEL EXPERIENCED IN EROSION CONTROL, AND FOLLOWING THE PLANS AND SPECIFICATIONS INCLUDED HEREIN.
2. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION AND UNTIL ALL LAND DISTURBING AND CONSTRUCTION ACTIVITIES HAVE CEASED. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
3. THE CONTRACTOR SHALL CONTROL WASTES, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE IN SUCH A WAY THAT THEY SHALL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WINDS, STORM WATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL AND MANAGEMENT OF ALL WASTES AND UNUSED BUILDING MATERIAL, APPROPRIATE TO THE NATURE OF THE WASTES AND MATERIALS IS REQUIRED. COMPLIANCE IS REQUIRED WITH ALL APPLICABLE REGULATIONS REGARDING WASTE DISPOSAL.
4. EXISTING VEGETATION SHALL BE PROTECTED AS MUCH AS PRACTICAL.
5. THE CONTRACTOR SHALL STOCKPILE TOPSOIL FOR USE IN FINAL LANDSCAPING. THE LOCATION OF THE STOCKPILE AREA SHALL BE DETERMINED BY THE CONTRACTOR, UNLESS OTHERWISE INDICATED ON THE DRAWINGS, AND ALL NECESSARY EROSION AND SEDIMENTATION PREVENTION MEASURES SHALL BE IMPLEMENTED.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL MUD, DIRT, GRAVEL, AND ANY OTHER MATERIALS TRACKED ONTO ANY PUBLIC OR PRIVATE STREETS, SIDEWALKS, OR RIGHTS-OF-WAY. THE CONTRACTOR MUST USE WATER OR OTHER METHODS TO KEEP AIRBORNE DUST TO A REQUIRED MINIMUM.
7. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION.
8. INLET PROTECTION SHALL BE INSTALLED AROUND ALL STORM DRAINAGE INLETS, PROPOSED AND EXISTING.
9. CONTRACTOR SHALL REMOVE ACCUMULATED SEDIMENT FROM ALL UTILITY STRUCTURES PRIOR TO FINAL SITE STABILIZATION. AT COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE TRANSFER OF MAINTENANCE RESPONSIBILITIES OF ANY PERMANENT SEDIMENT CONTROL STRUCTURES WITH THE OWNER.
10. ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE REMOVED AND DISPOSED OF WITHIN THIRTY DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED, OR AFTER THE TEMPORARY PRACTICES ARE NO LONGER NEEDED. ACCUMULATED SEDIMENT SHALL BE PERMANENTLY STABILIZED OR PROPERLY DISPOSED OF.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND EROSION CONTROL ASSOCIATED WITH OFFSITE BORROW OR SPOIL AREAS.
12. THE APPROVED EROSION CONTROL PLAN MUST BE RETAINED ON-SITE AT ALL TIMES DURING THE PERIOD OF CONSTRUCTION.
13. EROSION CONTROL REQUIREMENTS FOR COMPLIANCE WITH EPA'S GENERAL PERMIT FOR CONSTRUCTION SHALL BE FOLLOWED. REFER TO AND UPDATE THE EROSION CONROL PLAN AS APPROPRIATE.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL FROM SITE OF ALL EXCESS EARTH MATERIALS ASSOCIATED WITH EXCAVATION OF THE SITE.

N

0 30 60 90

GRAPHIC SCALE IN FEET

RS&H

CONSULTANTS

WOOLPERT
ARCHITECTURE | ENGINEERING | GEOSPATIAL

KERR-GREULICH
ENGINEERS INC

RS&H Ohio, Inc.
670 Morrison Road, Suite 260
Gahanna, Ohio 43230
614-501-6331 FAX 614-501-6341
www.rsandh.com
Ohio Certificate Nos. 00242745-ARC * 01751

Bank of America

7400 TYLERSVILLE ROAD
WEST CHESTER, OH 45069

THESE DRAWINGS ARE NOT APPROVED UNLESS SIGNED AND SEALED BELOW.

STATE OF OHIO
MICHAEL TODD FORD
E-76222
REGISTERED
PROFESSIONAL ENGINEER
11-30-18

MICHAEL TODD FORD
LICENSE NUMBER: P.E. 76222

ISSUE DATE: 12/23/2011
EFFECTIVE DATE: 1/1/2018
EXPIRATION DATE: 12/31/2019

REVISIONS

NO.	DESCRIPTION	DATE
	PERMIT DOCUMENTS	11.30.18

DATE ISSUED: 30 NOVEMBER, 2018
CHECKED BY: BLS
DESIGNED BY: MTF
DRAWN BY: ANM

AEP PROJECT NUMBER
524 000 0000

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SHEET TITLE

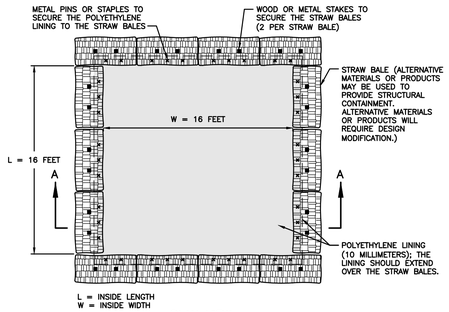
EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

C301

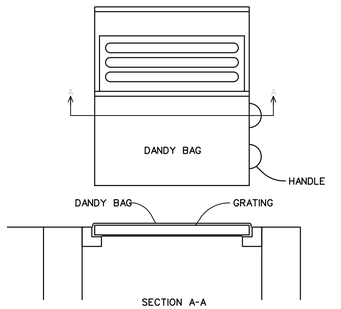
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G:\DE\Clients\Bank of America\078973 West Chester OH\4.0 Disciplines\Civil\Cadd\Cd\078973-ERO 2.dwg Plotted By:Bart, Angelo Plotted:January 2, 2019, 4:57:51 PM



CONCRETE WASHOUT DETAIL

NO SCALE



INSTALLATION : STAND GRATE ON END, PLACE DANDY BAG OVER GRATE, FLIP GRATE OVER SO THAT OPEN END IS UP, PULL UP SLACK, TUCK FLAP IN, BE SURE END OF GRATE IS COMPLETELY COVERED BY FLAP OR DANDY BAG WILL NOT FIT PROPERLY, HOLDING HANDLES, CAREFULLY PLACE DANDY BAG WITH GRATE INSERTED INTO CATCH BASIN FRAME SO THAT RED DOT ON THE TOP OF THE DANDY BAG IS VISIBLE.

MAINTENANCE : AFTER SILT HAS DRIED, REMOVE IT FROM THE SURFACE OF DANDY BAG WITH BROOM.

DANDY BAG

NO SCALE

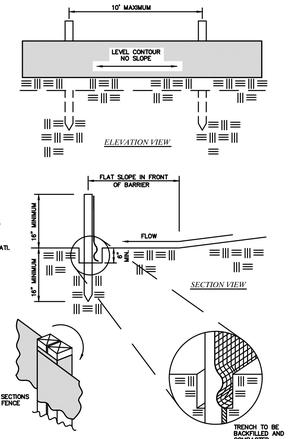
SILT FENCE SPECIFICATIONS

1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
2. 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 WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
3. TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.
4. WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FT. (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.
6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 IN. ABOVE THE ORIGINAL GROUND SURFACE.
7. THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6 IN. DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8 IN. OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6–IN.–DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.
9. SEAMS BETWEEN SECTION OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.
10. MAINTENANCE—SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE:
    1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED
    2) ACCUMULATED SEDIMENT SHALL BE REMOVED
    3) OTHER PRACTICES SHALL BE INSTALLED AS REQUIRED BY THE CITY OF CINCINNATI.

CRITERIA FOR SILT FENCE MATERIALS

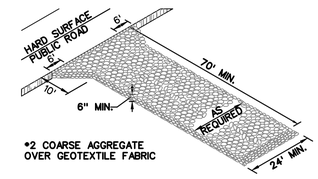
1. FENCE POSTS—THE LENGTH SHALL BE A MINIMUM OF 32 IN. LONG. WOOD POSTS WILL BE 2–BY–2–IN. HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT.
2. SILT FENCE FABRIC SHALL BE ODOT 712.09 TYPE C GEOTEXTILE FABRIC AS DESCRIBED BY THE CHART BELOW:

FABRIC PROPERTIES	
MINIMUM TENSILE STRENGTH	120 lbs.
MAXIMUM ELONGATION AT 60 LBS.	50 %
MINIMUM PUNCTURE STRENGTH	50 lbs.
MINIMUM TEAR STRENGTH	40 lbs.
MINIMUM BURST STRENGTH	200 psi
APPARENT OPENING SIZE	≤ 0.84mm
MINIMUM PERMITTIVITY	1X10⁻² sec⁻¹
ULTRAVIOLET EXPOSURE STRENGTH RETENTION	70%



SILT FENCE

NO SCALE

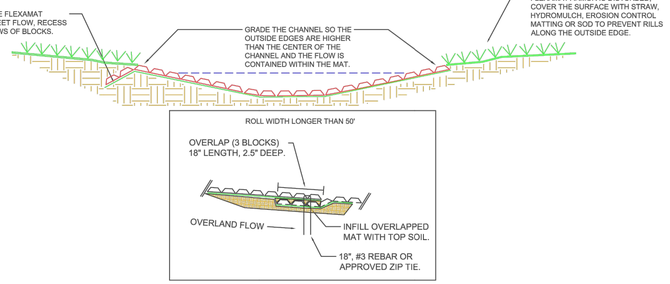


TEMPORARY CONSTRUCTION ACCESS

NO SCALE

NOTES FOR COMPLIANCE WITH OEPA "STORM WATER POLLUTION PREVENTION PLAN" (SWP 3)

1. VICINITY MAP: REFER TO C000 – COVER SHEET.
2. EXISTING CONDITIONS & DEMOLITION PLAN: REFER TO SHEET C100.
3. SURFACE WATER LOCATIONS: NONE.
4. SITE DEVELOPMENT: REFER TO SHEET C200.
5. LOCATION OF PRACTICES: REFER TO NOTES ON THIS SHEET.
6. DETAIL DRAWINGS: REFER TO THIS SHEET.
7. LAND STABILIZATION MEASURES: SEE TYPICAL SOIL PROTECTION CHART DETAIL.
8. SPECIAL NOTES FOR CRITICAL AREAS: N/A
9. A WRITTEN LOG MUST BE KEPT FOR ALL INSPECTIONS AND MADE A PART OF THE SWP3 PLAN. THE LOG SHOULD INDICATE THE DATE OF INSPECTION, NAME OF THE INSPECTOR, WEATHER CONDITIONS, OBSERVATIONS, ACTIONS TAKEN TO CORRECT ANY PROBLEMS AND THE DATE ACTION WAS TAKEN.
10. THE EROSION CONTROL MEASURES INCLUDED IN THE STORM WATER POLLUTION PREVENTION PLAN (GRADING/EROSION CONTROL PLAN AND EROSION CONTROL DETAILS) SHALL BE INSTALLED PRIOR TO INITIAL LAND DISTURBANCE ACTIVITIES OR AS SOON AS PRACTICAL. SEDIMENT SHALL BE PREVENTED FROM DISCHARGING FROM THE PROJECT SITE BY INSTALLING AND MAINTAINING SILT FENCE, STRAW BALES, SEDIMENT BASINS, ETC. AS SHOWN ON THIS PLAN. IF SHOWN ON THESE PLANS, ENERGY– DISSIPATION DEVICES OR EROSION CONTROL AT THE OUTFALL OF THE STORM SEWER SYSTEM SHALL BE INSTALLED AT THE TIME OF THE CONSTRUCTION OF THE OUTFALL. STRUCTURAL PRACTICES SHALL BE USED TO CONTROL EROSION FROM ALL SITES REMAINING DISTURBED FOR MORE THAN 14 DAYS.
11. PUBLIC OR PRIVATE ROADWAYS SHALL BE CLEARED OF ACCUMULATED SEDIMENT. BULK CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING THE AREA WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE POINT OF LIKELY ORIGIN OR OTHER SUITABLE LOCATION.
12. EXCEPT AS PREVENTED BY INCLEMENT WEATHER CONDITIONS, ALL DISTURBED AREAS TO REMAIN INACTIVE FOR MORE THAN 21 DAYS SHALL BE STABILIZED BY SEEDING, SODDING, MULCHING, COVERING, OR BY OTHER EQUIVALENT EROSION CONTROL MEASURES WITHIN SEVEN (7) DAYS OF THE MOST RECENT DISTURBANCE. PERMANENT SOIL STABILIZATION SHALL BE PROVIDED WITHIN 7 DAYS AFTER FINAL GRADE IS ESTABLISHED.
13. THIS EROSION CONTROL PLAN SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE. ALL MEASURES INVOLVING EROSION CONTROL PRACTICES SHALL BE INSTALLED UNDER THE GUIDANCE OF QUALIFIED PERSONNEL EXPERIENCED IN EROSION CONTROL, AND FOLLOWING THE PLANS AND SPECIFICATIONS INCLUDED HEREIN.
14. EXISTING VEGETATION SHALL BE PROTECTED AS MUCH AS PRACTICAL.
15. ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE REMOVED AND DISPOSED OF WITHIN THIRTY DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY PRACTICES ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION.
16. IN ADDITION TO TEMPORARY EROSION, SEDIMENT AND DEBRIS CONTROL DETAILS AND NOTES SHOWN ON THE PLANS, THE CONTRACTOR SHALL CONSTRUCT ADDITIONAL TEMPORARY SEDIMENT BASINS, EARTH DIKES, TEMPORARY OR PERMANENT SEEDING, MULCH OR MULCH NETTING OR ANY OTHER GENERALLY ACCEPTABLE METHODS TO PREVENT MUD, SILT AND DEBRIS FROM BEING DEPOSITED ON OR INTO ADJACENT PROPERTIES, EXISTING ROADS, ENCLOSED OR OPEN DRAINAGE SYSTEMS AND ADJACENT WATERWAYS.
17. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL.
18. UNTIL IMPROVEMENTS IN THE DEVELOPMENT HAVE BEEN COMPLETED, THE CONTRACTOR SHALL TAKE SUCH MEASURES AS ARE NECESSARY TO PREVENT EROSION OF GRADED SURFACES ONTO ROADWAYS, INTO DRAINAGE COURSES, OR SEWERS, OR ONTO ADJOINING LAND. FOR ANY GRADING PROJECT OR ANY DEVELOPMENT APPROVED BY THE DEPARTMENT OF WATER, THE CONTRACTOR SHALL CLEAN UP ANY MUD AND DEBRIS DEPOSITED ON ROADWAYS, DRAINAGE COURSES, OR ADJOINING PROPERTY WHEN THE MUD AND DEBRIS ORIGINATES FROM THE GRADED SURFACES.
19. ALL MUD/DIRT TRACKED ONTO ROADS FROM THE SITE, DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
20. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST CONSTRUCTION. SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE STEP IN, AGAINST ANY TRANSPORTING OF SILT OFF THE SITE.
21. ALL STORM DRAIN INLETS SHALL BE PROTECTED AGAINST SEDIMENTATION WITH FILTER FABRIC, OR EQUIVALENT BARRIERS IF THEY ARE DOWNSTREAM OF THE EXCAVATION OR AS SHOWN ON THESE PLANS.
22. ALL EROSION AND SEDIMENT CONTROL SHALL BE INSPECTED IN ACCORDANCE WITH THE CONDITIONS OF APPLICABLE NPDES PERMITS, WHICH REQUIRES THAT ALL CONTROLS BE INSPECTED AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF A 0.5" OR GREATER RAINFALL.
23. DISCHARGE LOCATIONS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO THE RECEIVING WATERS.
24. DURING THE PERIOD OF CONSTRUCTION ACTIVITY, ALL SEDIMENT BASINS AND OTHER EROSION CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR. AT COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE TRANSFER OF MAINTENANCE RESPONSIBILITIES, IF REQUIRED, WITH THE OWNER. MAINTENANCE SHALL BE IN ACCORDANCE WITH CHAPTER 7 OF THE SOIL CONSERVATION SERVICE MANUAL "RAINWATER AND LAND DEVELOPMENT."
25. DISPOSAL OF SOLID, SANITARY AND TOXIC WASTE: 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 OUT ONTO THE GROUND OR INTO STORM SEWERS ANY SOLVENTS, PAINTS, STAINS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CEMENT CURING COMPOUNDS AND OTHER SUCH TOXIC OR HAZARDOUS WASTES. WASH OUT OF CEMENT TRUCKS SHOULD OCCUR IN A DIKED, DESIGNATED AREA WHERE THE WASTEWATER CAN BE COLLECTED AND DISPOSED OF PROPERLY WHEN THEY HARDEN. STORAGE TANKS SHOULD BE LOCATED IN DIKED AREAS AWAY FROM ANY DRAINAGE OF THE CHANNELS. THE DIKED AREA SHOULD BE 110% OF THE LARGEST TANK VOLUME. OFF–SITE SEDIMENT TRACKING – MINIMIZE SUCH TRACKING OF SEDIMENTS BY VEHICLES BY INSTALLING GRAVEL CONSTRUCTION ENTRANCES AND CONDUCTING SCHEDULED SWEEPING/GOOD HOUSEKEEPING ACTIVITIES.
26. THE CONTRACTOR SHALL CONTROL WASTES, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE IN SUCH A WAY THAT THEY SHALL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WINDS, STORM WATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL OR MANAGEMENT OF ALL WASTES AND UNUSED BUILDING MATERIAL, APPROPRIATE TO THE NATURE OF THE WASTE OR MATERIAL IS REQUIRED. COMPLIANCE IS REQUIRED WITH ALL STATE OR LOCAL REGULATIONS REGARDING WASTE DISPOSAL; SANITARY SEWER, OR SEPTIC SYSTEMS.
27. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE RAINWATER AND LAND DEVELOPMENT, OHIO'S STANDARDS FOR STORMWATER MANAGEMENT LAND DEVELOPMENT AND URBAN STREAM PROTECTION, 1996.
28. THIS EROSION CONTROL PLAN MUST BE RETAINED ON–SITE AT ALL TIMES DURING THE PERIOD OF CONSTRUCTION.
29. IF APPLICABLE, SOIL STOCKPILES SHALL BE TEMPORARILY SEEDED. A DOUBLE ROW OF SILT FENCE SHALL BE INSTALLED AT THE BASE OF THE STOCKPILE. CONTRACTOR SHALL COORDINATE WITH COUNTY FOR THE LOCATION OF THE STOCKPILE.



CONSTRUCTION NOTES:

1. AN ENGINEER OR MANUFACTURES REPRESENTATIVE SHALL BE ONSITE FOR THE START OF THE INSTALLATION.
2. GRADE THE SITES SO THAT WATER WILL NOT FLOW ABOVE, BELOW, OR AROUND THE OUTSIDE OF THE AREA PROTECTED WITH FLEXAMAT. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND.
3. APPLY SITE SPECIFIC SEED, INCLUDING NATIVE GRASSES DIRECTLY TO THE PREPARED SOIL PRIOR TO FLEXAMAT INSTALLATION.
4. FLEXAMAT ROLLS ARE AVAILABLE IN WIDTHS OF 4', 5.5', 8', 10', 12', & 16'. IT IS THE MANUFACTURERS RECOMMENDATION TO UTILIZE THE WIDEST MATS POSSIBLE TO REDUCE AN ABUNDANCE OF SEAMS OR OVERLAPS.
    a. TO ACHIEVE WIDER WIDTHS, INSTALL MATS ADJACENT TO ONE ANOTHER. INSTALL ADDITIONAL UNDERLAYMENT UNDER ALL ADJOINING MATS. A MINIMUM OF 12" OF UNDERLAYMNET SHALL EXTEND UNDER EACH SIDE OF THE MAT AND DIRECTLY AGAINST THE SUBGRADE.
    b. INSTALL 18" #3 REBAR U-ANCHORS OR STAINLESS STEEL ZIP TIES IN 3' INCREMENTS THE LENGTH OF THE LONGITUDINAL SEAM.
5. AT THE BEGINNING OF THE FLEXAMAT, TRANSITION THE INITIAL LEADING EDGE PROPERLY WITH EROSION MATTING OR SOD. IF EXPOSED TO CONCENTRATED FLOWS EMBED 18" VERTICALLY INTO THE SUB GRADE TO SERVE AS AN ANCHOR TRENCH. THE TRENCH SHALL BE FILLED AND COMPACTED WITH SUITABLE FILL OR OTHER (AS SPECIFIED BY EOR).
6. FOR ADDITIONAL SECTIONS OF MAT, OVERLAP THE DOWNSTREAM SECTION 18" WITH UPSTREAM SECTION OF MAT. PRIOR TO INSTALLING OVERLAP, FLIP UPSTREAM MAT BACK 24". EXCAVATE 2.25" OF SOIL 18" FROM END OF UPSTREAM MAT. DOWNSTREAM SECTION IS LAID IN THE SHALLOW TRENCH. LIGHTLY SPREAD TOPSOIL, SEED AND FERTILIZER OVER INITIAL EDGE. FLIP END OF UPSTREAM MAT OVER THE SOIL COVERED INITIAL LEADING EDGE OF DOWNSTREAM MAT.
7. INSTALL 18" U-ANCHORS IN 3' INCREMENTS ACROSS THE OVERLAP. INSTALL ANCHORS DIRECTLY BEHIND BLOCKS. "U" ANCHORS CONSIST OF #3 REBAR "U" ANCHOR WITH 18" LEGS.
8. AT THE END OF THE ARMORED CHANNEL, EMBED THE MAT 18" IN A TERMINATION TRENCH. FILL AND COMPACT TERMINATION TRENCH WITH SOIL (DETERMINED BY EOR).

FLEXAMAT INFORMATION

Manufacturer: Motz Enterprises, Inc.
Product Name: Flexamat
Address: 3153 Madison Road, Cincinnati, OH 45209
Telephone: 513-772-6689
Email: info@Flexamat.com
Website: www.Flexamat.com

FLEXAMAT STANDARD CHANNEL DETAIL NTS

STABILIZATION TYPE:	JAN	FEB.	MAR	APR	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC
PERMANENT SEEDING			A									
DORMANT SEEDING	B											
TEMPORARY SEEDING			C			D*						
SODDING			E**									
MULCHING	F											

A = PROVIDE SW DURA TURF MIX AVAILABLE FROM
B = TRUPOINTE COOPERATIVE, INC., PIQUA, OHIO PLUS 2 TON/AC. STRAW MULCH
C = SPRING OATS @ 100 LBS/AC.
D = WHEAT OR CEREAL RYE @ 150 LBS/AC
E = SOD
F = STRAW MULCH @ 2 TONS/AC.
* = IRRIGATION NEEDED DURING JUNE AND JULY
** = IRRIGATION NEEDED FOR 2–3 WEEKS AFTER APPLYING SOD

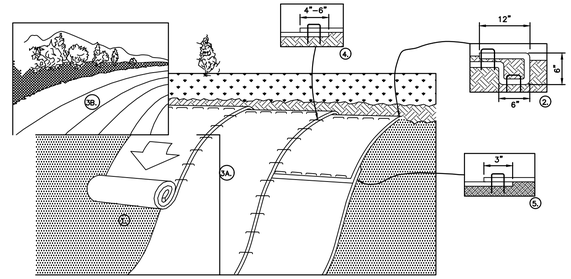
REF.= SCS "RAINWATER AND LAND DEVELOPMENT".

NOTE: INTERIM SEEDING TO BE UTILIZED FOR AREAS TO BE LEFT UNDISTURBED AS STATED ON NOTE #5 OF THE "EROSION CONTROL REQUIREMENTS FOR COMPLIANCE WITH OEPA'S GENERAL PERMIT FOR CONSTRUCTION."

MAXIMUM PERCENT WEED SEED: 0.5%

TYPICAL SOIL PROTECTION CHART

NO SCALE



NOTES

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP–SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS PER MANUFACTURES RECOMMENDATION.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH MINIMUM 6" OVERLAP. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
6. PLACE STAPLES/STAKES PER MANUFACTURE RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.
7. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

EROSION CONTROL BLANKET (SLOPE INSTALLATION)

NO SCALE

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CONSULTANTS

WOOLPERT
ARCHITECTURE | ENGINEERING | GEOSPATIAL

KERR-GREULICH
ENGINEERS INC

RS&H Ohio, Inc.
670 Morrison Road, Suite 260
Gahanna, Ohio 43230
614-501-6331 FAX 614-501-6341
www.rsandh.com
Ohio Certificate Nos. 00242745-ARC * 01751

Bank of America

7400 TYLERSVILLE ROAD
WEST CHESTER, OH 45069

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STATE OF OHIO
MICHAEL TODD FORD
E-76222
REGISTERED
PROFESSIONAL ENGINEER
11-30-18

MICHAEL TODD FORD
LICENSE NUMBER: P.E. 76222

ISSUE DATE: 12/23/2011
EFFECTIVE DATE: 1/1/2018
EXPIRATION DATE: 12/31/2019

REVISIONS

NO.	DESCRIPTION	DATE
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DATE ISSUED: 30 NOVEMBER, 2018
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DESIGNED BY: MTF
DRAWN BY: ANM

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SHEET TITLE

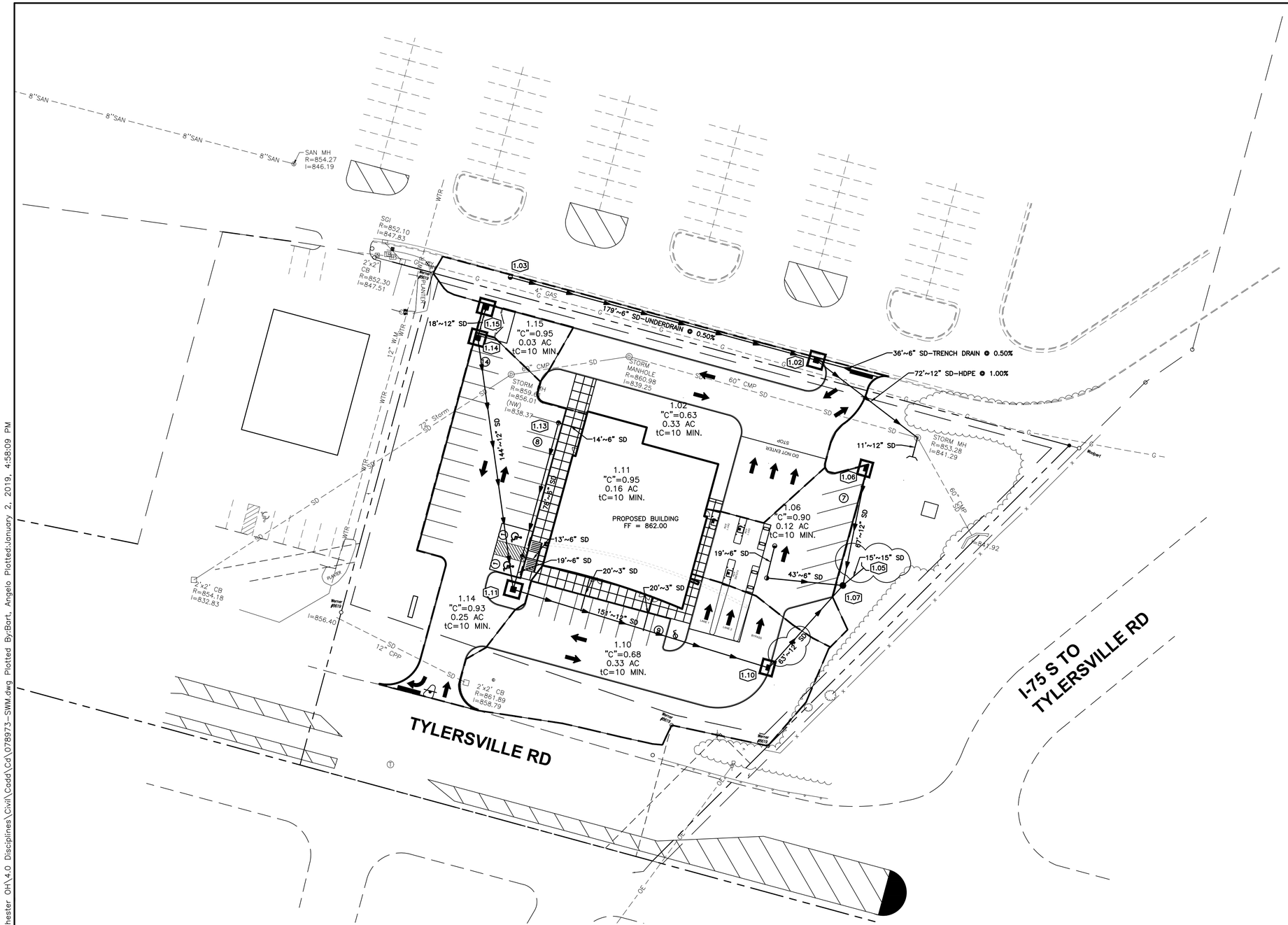
EROSION & SEDIMENT CONTROL NOTES & DETAILS

SHEET NUMBER

C302

PERMIT DOCUMENTS

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LEGEND

- EXISTING BOUNDARY
- EXISTING EASEMENT LINE
- EXISTING GUARDRAIL
- EXISTING FENCE
- EXISTING PARKSPACE
- EXISTING TREE LINE
- EXISTING WATER LINE
- EXISTING SANITARY LINE
- EXISTING STORM LINE
- EXISTING GAS LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING SIGN
- EXISTING SANITARY MANHOLE
- EXISTING STORM MANHOLE
- EXISTING DRAINAGE STRUCTURE
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING TELEPHONE PEDESTAL
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING GUY WIRE
- EXISTING TELEPHONE MANHOLE
- EXISTING ELECTRIC MANHOLE
- SANITARY SEWER LATERAL
- STORM LATERAL
- GAS SERVICE
- WATER LATERAL
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- TRANSFORMER
- SANITARY MANHOLE
- CATCH BASIN
- CURB INLET
- END SECTION
- DRAINAGE CATCHMENT AREA

Line	To Line	Line Length	Incr. Area	Total Area	Runoff Coeff.	Incr C x A	Total C x A	Inlet Time	Time Conc	Rnfal Int	Total Runoff	Adnl Flow	Total Flow	Capac Full	Veloc	Pipe Size	Pipe Slope	Inv Elev Dn	Inv Elev Up	HGL Dn	HGL Up	Grnd/Rim Dn	Grnd/Rim Up	Line ID
		(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
6	Outfall	67.369	0.12	0.12	0.9	0.11	0.11	10	10	5.5	0.59	0	0.59	2.53	2.7	12	0.5	855.36	855.7	855.68	856.03	858.87	859.1	1.06-1.07
5	4	18	0.03	0.03	0.95	0.03	0.03	10	10	5.5	0.16	0	0.16	2.52	0.31	12	0.5	855.64	855.73	856.31	856.31	858.91	858.73	1.15-1.14
4	3	143.807	0.25	0.28	0.93	0.23	0.26	10	10.9	5.3	1.38	0	1.38	2.52	2.03	12	0.5	854.82	855.54	856.04	856.25	861.76	858.91	1.14-1.11
3	2	151.343	0.16	0.44	0.95	0.15	0.41	10	12.1	5.1	2.09	0	2.09	2.52	2.66	12	0.5	853.96	854.72	855.36	855.88	860.08	861.76	1.11-1.10
2	1	62.658	0.33	0.77	0.68	0.22	0.64	10	13.1	4.9	3.11	0	3.11	2.5	3.96	12	0.49	853.55	853.86	854.55	855.03	858.87	860.08	1.10-1.07
1	Outfall	15	0	0.77	0	0	0.64	0	13.3	4.8	3.08	0	3.08	4.72	4.09	15	0.53	853.31	853.39	854.05	854.13	854.71	858.87	1.07-1.05

HYDRAFLOW DOT REPORT 10-YR

N

0 30 60 90

GRAPHIC SCALE IN FEET

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SHEET TITLE

DRAINAGE PLAN

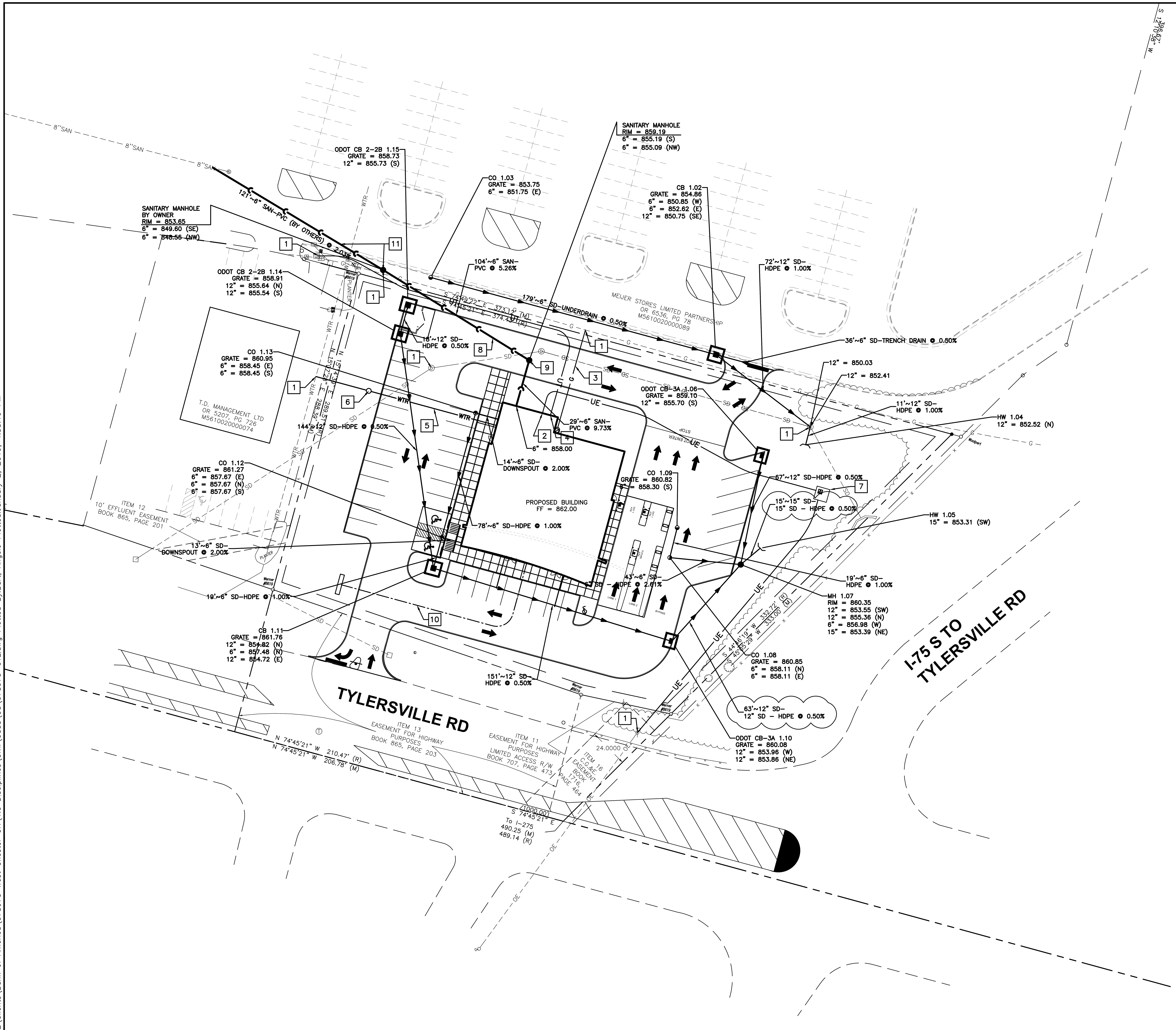
SHEET NUMBER

C303

PERMIT DOCUMENTS

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LEGEND

- EXISTING BOUNDARY
- EXISTING EASEMENT LINE
- EXISTING GUARDRAIL
- EXISTING FENCE
- EXISTING PARKSPACE
- EXISTING TREE LINE
- WTR — EXISTING WATER LINE
- SAN — EXISTING SANITARY LINE
- SD — EXISTING STORM LINE
- G — EXISTING GAS LINE
- OE — EXISTING OVERHEAD ELECTRIC
- EXISTING SIGN
- EXISTING SANITARY MANHOLE
- EXISTING STORM MANHOLE
- EXISTING DRAINAGE STRUCTURE
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING TELEPHONE PEDESTAL
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- EXISTING LIGHT POLE
- EXISTING GUY WIRE
- EXISTING TELEPHONE MANHOLE
- EXISTING ELECTRIC MANHOLE
- SANITARY SEWER LATERAL
- STORM LATERAL
- G — GAS SERVICE
- WTR — WATER LATERAL
- UE — UNDERGROUND ELECTRIC
- UT — UNDERGROUND TELEPHONE
- TRANSFORMER
- SANITARY MANHOLE
- CATCH BASIN
- CURB INLET
- END SECTION

X KEYNOTES

1. CONNECT TO EXISTING UTILITY PER AGENCY REQUIREMENTS.
2. UNDERGROUND PRIMARY ELECTRIC. CONTRACTOR TO INSTALL 2-4" SCH. 40 CONDUITS.
3. PRIMARY GAS SERVICE (BY CONTRACTOR).
4. PRIMARY UNDERGROUND TELEPHONE SERVICE. CONTRACTOR TO INSTALL 2-3" SCH. 40 CONDUITS.
5. 1" WATERLINE COPPER TYPE K.
6. PROPOSED 36" DIAMETER WATER METER VAULT. (SEE DETAIL ON SHEET C601).
7. NEW PADMOUNT TRANSFORMER (BY DUKE ENERGY).
8. SANITARY SERVICE AT MINIMUM 1.00% SLOPE.
9. SANITARY MANHOLE (SEE DETAIL SHEET C601).
10. UNDERGROUND ELECTRIC CONDUIT TO SERVE MONUMENT SIGN.
11. SANITARY MANHOLE & SERVICE TO BE INSTALLED BY OWNER.

UTILITY NOTES

1. CONTRACTOR TO VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. ALL DIMENSIONS ARE TO THE CENTERLINE OF PIPE, CENTER OF MANHOLE, EDGE OF PAVEMENT, OR FACE OF CURB WHERE APPLICABLE.
3. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TAP AND TIE-IN FEES REQUIRED. CONTRACTOR SHALL COORDINATE CONSTRUCTION OF UTILITIES WITH THE APPROPRIATE UTILITY COMPANY.
4. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
5. PROVIDE CONCRETE ENCASEMENT FOR ALL SANITARY SEWER SERVICE WHICH HAS LESS THAN TWO FEET OF COVER.
6. MAINTAIN TEN (10) FEET HORIZONTAL, AND EIGHTEEN (18) INCHES VERTICAL SEPARATION BETWEEN WATER MAIN AND SANITARY SEWER AND/OR STORM SEWER UNLESS NOTED OTHERWISE. WHERE THE EIGHTEEN (18) INCHES OF VERTICAL SEPARATION IS NOT POSSIBLE, THE SEWER SHOULD BE CONCRETE ENCASED UNLESS NOTED OTHERWISE.

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UTILITY PLAN

SHEET NUMBER

C400

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