# TRILOGY HEALTH SERVICES, LLC

# PROPOSED CONTINUUM OF CARE FACILITY DAVIDSON ROAD AND BRITTON PARKWAY, CITY OF HILLIARD, COUNTY OF FRANKLIN, STATE OF OHIO

SEPTEMBER 2017

# INDEX OF SHEETS EXISTING CONDITIONS AND DEMOLITION PLAN SITE DIMENSION & LAYOUT PLAN .. STORM WATER POLLUTION AND PREVENTION PLAN. SWPPP NOTES AND DETAILS ... LANDSCAPE NOTES AND DETAILS .. SETBACKS:

		FRONT:	BUILDI	NG: 100 FT.
BUILDING USE:	115 BED CONTINUUM OF CARE FACILITY	SIDE:	PARKII BUILDI	NG: 50 FT.
BUILDING DIMENSIONS:	APPROX. 420 FT. X 290 FT.	REAR:	PARKII BUILDI PARKII	NG: 20 FT.
SQ. FOOTAGE OF BUILDING:	APPROX. 79,000 SQ. FT.	PARKING REQUIREMENTS:		
STORIES:	TWO STORIES	SENIOR INDEPENDENT LIV @ 22 UNITS:		1.25 SPACES/ UNIT 28.5 SPACES
LOT COVERAGE: % COVERED:	10,412 SQ. FT. 24%	NURSING AND CONVALESCENT HOMES:		1 SPACE/ 3 BEDS, PLUS
IMPERVIOUS AREA: % IMPERVIOUS: LOT WIDTH:	4.13 ACRE 54% REQUIRED: 200 FT. PROVIDED: 592 FT.	93 BEDS/ 3 + 60 EMPL	OYEES	1 SPACE/ EA. EMPLOYE ON LARGEST SHIFT

→ BENCHMARK 1 PUNCH SET ON A FIRE HYDRANT BOLT. APPROXIMATELY 1170+/- FEET WEST OF INTERSECTION OF DAVIDSON ROAD AND BRITTON ROAD. ON THE NORTH SIDE OF DAVIDSON ROAD. ELEVATION: 898.71'

PUNCH SET ON A FIRE HYDRANT BOLT, APPROXIMATELY 730+/- FEET WEST OF INTERSECTION OF DAVIDSON ROAD AND BRITTON ROAD. ON THE NORTH SIDE OF DAVIDSON ROAD. ELEVATION: 896.12'

SPACES REQUIRED: 28 + 91 =

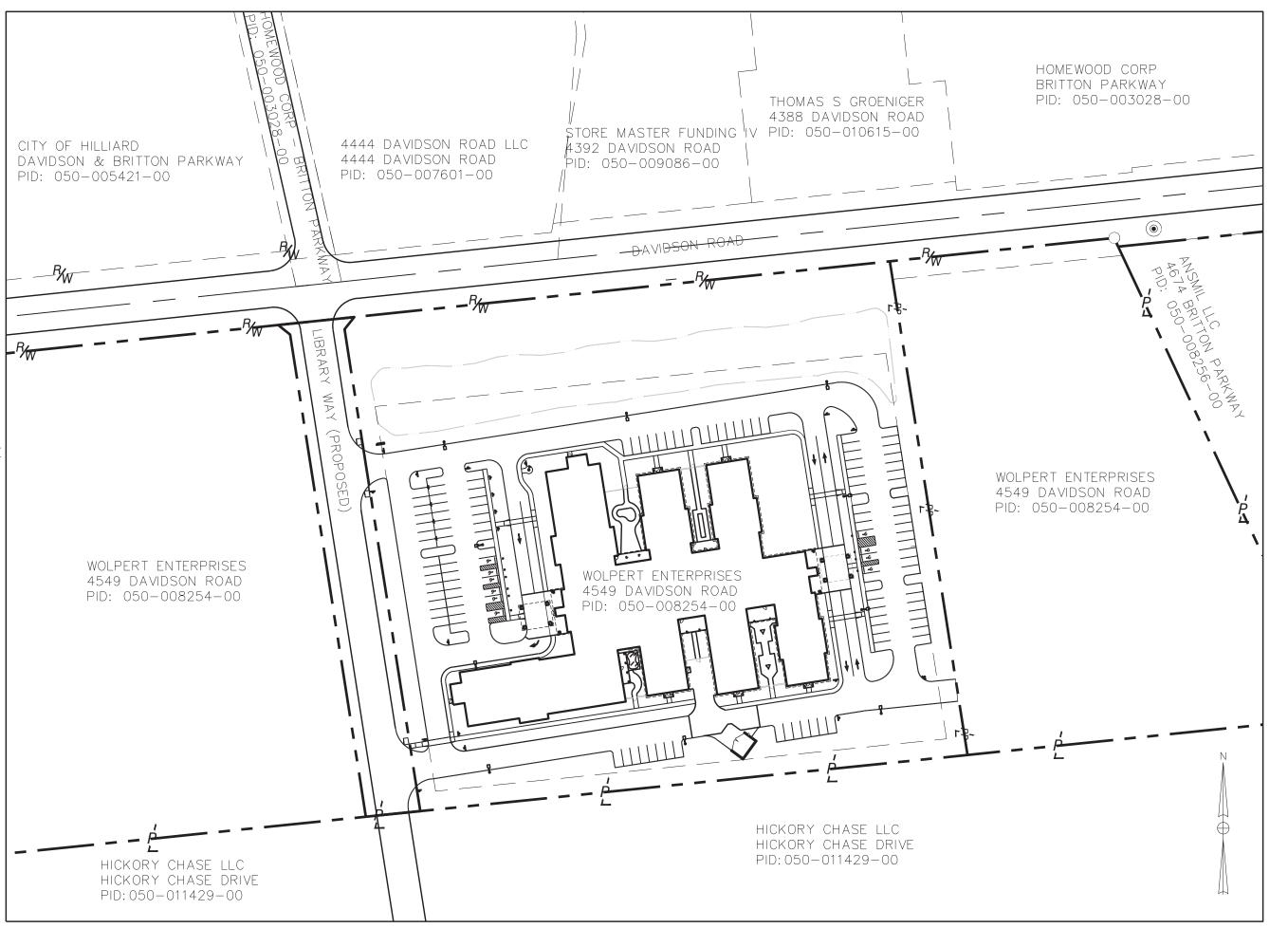
SPACES PROVIDED:



#### \_OCATION MAP NOT TO SCALE



OHIO UTILITIES PROTECTION SERVICE NON MEMBERS MUST BE CALLED DIRECTLY OHIO OIL & GAS PRODUCERS: 800-925-0988



# SITE INDEX MAP

STANDARD DRAWINGS				
HILLIARD	COLUMBUS			ODOT
HILLIANU	STREETS	STORM	WATER	0001

SIGNATURES BELOW SIGNIFY CONCURRENCE WITH THE GENERAL PURPOSE AND LOCATION OF THE PROPOSED PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE DESIGN ENGINEER PREPARING THE PLANS.

PLAN SET APPROVED BY:

CITY OF HILLIARD

MAP. USERS OF THIS MAP ARE NOTIFIED THAT THE PUBLIC PRIMARY INFORMATION SOURCE SHOULD BE CONSULTED FOR VERIFICATION OF THE INFORMATION CONTAINED ON THIS MAP. PLEASE NOTIFY THE GIS STAFF OF ANY DISCREPANCIES BY E-MAILING GIS@HILLIARDOHIO.GOV

NORWICH TOWNSHIP FIRE DEPARTMENT

CITY OF COLUMBUS UTILITIES

NOTE: SEE THE 1994 WATER AND SEWER AGREEMENT BETWEEN THE CITY OF COLUMBUS AND THE CITY OF HILLIARD (UPDATED 2001, 2011) FOR DETAILS ON THE CONTRACT BETWEEN THE TWO CITIES.

TELECOMMUNICATIONS COMPANY

SPECTRUM ENTERPRISE

COLUMBUS, OH 43212

PHONE: 614-255-2821

<u>CIVIL ENGINEER</u>

1015 OLENTANGY RIVER RD.

CITY OF HILLIARD 3800 MUNICIPAL WAY HILLIARD, OHIO 43026

PHONE: 614-334-2459 PHONE: 614-460-5400 CITY OF HILLIARD 3800 MUNICIPAL WAY

ELECTRIC COMPANY AMERICAN ELECTRIC POWER 1 RIVERSIDE PLAZA HILLIARD, OHIO 43026 COLUMBUS, OH 43215 PHONE: 614-334-2459 PHONE: 614-716-1000

GAS COMPANY

COLUMBIA GAS

290 W. NATIONWIDE BLVD.

COLUMBUS, OH 43215

#### PROJECT CONTACTS

<u>DEVELOPER</u> TRILOGY HEALTH SERVICES, LLC 303 N HURSTBOURNE PKWY, SUITE 200 LOUISVILLE, KY 40222

THE MANNIK & SMITH GROUP, INC. 23225 MERCANTILE ROAD BEACHWOOD, OH 44122

STANDARD DRAWINGS ARE TO BE THE CURRENT DRAWING AT THE TIME OF PLAN APPROVAL AND SHALL BE CONSIDERED A PART OF THESE DRAWINGS.

**PRELIMINARY** NOT FOR CONSTRUCTION

TRILO( SERV

CONTINUUM E FACILITY PROPOSED ( OF CARE I

SHEET

- THE REGULATIONS AND CONSTRUCTION STANDARDS OF THE CITY OF HILLIARD, TOGETHER WITH THE CURRENT CONSTRUCTION AND MATERIAL SPECIFICATIONS OF THE CITY OF COLUMBUS (COLS) AND THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT), INCLUDING ALL SUPPLEMENTS THERETO, SHALL GOVERN ALL CON— STRUCTION ITEMS THAT ARE A PART OF THIS PLAN UNLESS OTHERWISE NOTED.
- 2. THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE WILL MAKE INSPECTION OF THE WORK. THE CITY ENGINEER WILL REQUIRE AT LEAST 48 HOURS WRITTEN NOTICE BEFORE ANY WORK TAKES PLACE. FAILURE TO REQUEST THE NECESSARY INSPECTION MAY RESULT IN THE REJECTION OF THE WORK AND THE PROJECT.
- 3. IT IS THE INTENTION OF THE PLANS TO PROVIDE AND REQUIRE A COMPLETED PROJECT READY FOR OPERATION. ANY WORK OMITTED FROM THE PLANS, WHICH IS CLEARLY NECESSARY FOR COMPLETION OF THE WORK, AND ITS APPURTENANCES SHALL BE CONSIDERED A PART OF SUCH WORK, THOUGH NOT DIRECTLY SPECIFIED OR CALLED FOR IN THE PLANS. THIS INCLUDES, BUT IS NOT LIMITED TO, SUCH INCIDENTAL ITEMS AS RELOCATION OF MAILBOXES, SAW CUTTING, AND REMOVAL AND/OR RELOCATION OF SIGNS, SPRINKLERS, OR OTHER MISCELLANEOUS ITEMS.
- 4. ALL ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR WITH THE COST TO BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS RELATED ITEMS.
- 5. THE CONTRACTOR OR DEVELOPER SHALL DEPOSIT THE TOTAL ESTIMATED COST FOR INSPECTIONS, AS DETERMINED BY THE CITY ENGINEER, WITH THE CITY OF HILLIARD PRIOR TO THE START OF CONSTRUCTION.
- 6. THE CONTRACTOR SHALL PROVIDE THE CITY OF HILLIARD A SURETY, ACCEPTABLE TO THE CITY OF HILLIARD, EQUAL TO 100% OF CONSTRUCTION COSTS. THE SURETY SHALL GUARANTEE THE WORK FOR ONE YEAR AFTER ACCEPTABLE BY THE CITY.
- 7. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR SAFETY ON THE WORK SITE OR THE FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO PLANS.
- 8. APPROVAL OF THESE PLANS IS CONTINGENT UPON ALL EASEMENTS REQUIRED FOR CONSTRUCTION OF THE WORK BEING SECURED AND SUBMITTED TO THE CITY OF HILLIARD FOR RECORDING PRIOR TO COMMENCEMENT OF WORK. NO WORK WHICH REQUIRES AN EASEMENT WILL BE ALLOWED TO PROCEED UNTIL THIS IS DONE.
- 9. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL EXERCISE CAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING ALL REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.
- 10. THE CONTRACTOR/DEVELOPER SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS.
- 11. THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE, EXISTING RIGHT—OF—WAYS, AND TEMPORARY AND PERMANENT EASEMENTS AND SHALL NOT ENTER UPON OTHER PROPERTIES WITHOUT WRITTEN PERMISSION OF THE OWNER. IF THE PROPOSED WORK REQUIRES ENTERING EASEMENTS UPON OTHER PROPERTIES, THE CONTRACTOR SHALL NOTIFY THE OWNER(S) IN WRITING NO LESS THAN 72 HOURS IN ADVANCE OF THE COMMENCEMENT OF WORK, AND COPY THE CITY ON ALL CORRESPONDENCE. FAILURE TO NOTIFY AFFECTED PROPERTY OWNERS MAY SUBJECT THE CONTRACTOR TO THE PENALTIES ASSOCIATED WITH THE VIOLATION OF HILLIARD CITY CODE, SECTION 541.05, CRIMINAL TRESPASS.
- 12. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS,
  PROPERTY CORNERS, REFERENCE POINTS, STAKES, AND OTHER
  SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL
  OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE
  RESPONSIBLE. RESETTING THE MARKERS SHALL BE PERFORMED BY
  AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY
  ENGINEER AT THE CONTRACTOR'S EXPENSE.
- 13. PROPERTY BOUNDARIES, INCLUDING PROPERTY LINES AND ROAD RIGHT—OF—WAYS, ARE SHOWN FROM THE BEST INFORMATION AVAILABLE AND ARE NOT NECESSARILY COMPLETE OR CORRECT.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE FINISHED WORK CONFORM TO THE LINES, GRADES, ELEVATIONS, AND DIMENSIONS CALLED FOR ON THE DRAWINGS AND TYPICAL SECTIONS.
- 15. ANY DEVICE SHALL NOT BE OPERATED AT ANY TIME IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDENT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT. PURSUANT TO HILLIARD CITY CODE, SECTION 509.08, CONSTRUCTION ACTIVITY IS ONLY PERMITTED BETWEEN THE HOURS OF 7:30 A.M. AND 7:00 P.M. ANY CONSTRUCTION ACTIVITY BEYOND THESE HOURS REQUIRES A WRITTEN REQUEST TO THE DIRECTOR OF PUBLIC SERVICE MEETING THE REQUIREMENTS OF HILLIARD CITY CODE, SECTION 509.08b.
- 16. PAVEMENTS SHALL BE CUT IN NEAT, STRAIGHT LINES THE FULL DEPTH OF THE EXISTING PAVEMENT, OR AS REQUIRED BY THE CITY ENGINEER.
- 17. ALL SOIL SUBGRADE SHALL BE PREPARED AND COMPACTED IN ACCORDANCE WITH ITEM 204 TO A DEPTH OF 12 INCHES BELOW THE SUBGRADE SURFACE. SUBGRADE SHALL BE SCARIFIED AND CONTAIN SUFFICIENT MOISTURE TO MEET ITEM 203 COMPACTION REQUIREMENTS.
- 18. THE CONTRACTOR IS NOT PERMITTED TO USE ANY RECLAIMED MATERIAL IN ITEM 304.
- 19. NON-RUBBER TIRED VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.

- 20. TRACKING OR SPILLING MUD, DIRT, OR DEBRIS UPON STREETS, RESIDENTIAL, OR COMMERCIAL DRIVES, SIDEWALKS, OR BIKE PATHS IS PROHIBITED PER HILLIARD CITY CODE, SECTION 905.12 AND ANY SUCH OCCURRENCES SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR. IF THE CONTRACTOR FAILS TO REMOVE SAID MUD, DIRT, DEBRIS, OR SPILLAGE, THE CITY OF HILLIARD RESERVES THE RIGHT TO REMOVE THESE MATERIALS AND CLEAN AFFECTED AREAS, THE COST OF WHICH SHALL BE PAID BY THE CONTRACTOR/DEVELOPER PER HILLIARD CITY CODE, SECTION 905.13.
- 21. DURING CONSTRUCTION THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE AND PROPER SOIL EROSION CONTROL MEASURES FOR PROTECTION OF ALL ADJACENT ROADS AND LANDS, PER COLS ITEM 207.
- 22. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATERCOURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS—SECTIONS THAT EXISTED BEFORE CONSTRUCTION.
- 23. THE CONTRACTOR SHALL CONDUCT THEIR OPERATIONS SO AS TO MAINTAIN AT ALL TIMES SEWER, DRAIN, AND DITCH FLOWS THROUGH EXISTING FACILITIES TO REMAIN IN PLACE AND TO BE REPLACED UNTIL NEW FACILITIES ARE COMPLETED AND PUT INTO SERVICE. THE CONTRACTOR, TO A CONDITION SATISFACTORY TO THE CITY ENGINEER, SHALL RESTORE THE FLOW OF ALL SEWERS, DRAINS, AND OTHER WATERCOURSES DISTURBED DURING THE PROSECUTION OF THE WORK.
- 24. ANY MODIFICATION OF THE WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE HILLIARD CITY ENGINEER.
- 25. THE CONTRACTOR SHALL CALL TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (OUPS) AT 1-800-362-2764 SEVENTY-TWO (72) HOURS IN ADVANCE OF THE ANTICIPATED START OF CONSTRUCTION, AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST FORTH-EIGHT (48) HOURS PRIOR TO WORK IN THE VICINITY OF THEIR LINES.

OF THEIR LINES.

UTILITY
OWNER

TELEPHONE
AMERITECH
150 EAST GAY STREET
COLUMBUS, OH 43215

ELECTRIC

AMERICAN ELECTRIC POWER

850 TECH CENTER DRIVE

920 WEST GOODALE BLVD.

COLUMBUS, OH 43215

GAHANNA, OH 43230-6605

GAS

COLUMBIA GAS

CABLE TV TIME WARNER CABLE
1266 DUBLIN ROAD
P.O. BOX 2553

26. EXISTING UTILITIES SHOWN ON THE PLAN ARE FROM THE BEST AVAILABLE RECORDS AND FIELD INVESTIGATION AND ARE NOT NECESSARILY COMPLETE OR CORRECT. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN OR NOT.

COLUMBUS, OH 43216-2553

- 7. THE CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATION AND ELEVATION OF ANY UTILITIES WITHIN THE LIMITS OF THE PROPOSED CONDUIT PATH, PRIOR TO STARTING ANY EXCAVATION. IN CASE OF CONFLICT, ADJUSTMENTS IN LOCATION AND ELEVATION OF THE PROPOSED UTILITIES MAY BE MADE IF APPROVED PER GENERAL NOTE #24, OR ARRANGEMENTS SHALL BE MADE TO MOVE THE EXISTING UTILITY TO PROVIDE ADEQUATE CLEARANCE.
- 28. ALL WATER LINES MUST BE CONSTRUCTED WITH A MINIMUM TEN (10) FEET HORIZONTAL AND ONE & ONE—HALF (1.5) FOOT VERTICAL SEPARATION FROM ALL SEWER LINES. ALL NON—WATER LINE UTILITIES MUST BE CONSTRUCTED WITH A MINIMUM THREE (3) FEET HORIZONTAL AND ONE (1) FOOT VERTICAL SEPARATION.
- 29. EXISTING DRAIN TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE RECONNECTED OR CONNECTED TO THE STORM SEWER SYSTEM BY THE CONTRACTOR, AS APPROVED BY THE CITY ENGINEER. THE COST OF SAID WORK TO BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS RELATED ITEMS.
- 30. ALL TRENCHES WITHIN PAVEMENT, BERM, AND SHOULDER LIMITS SHALL BE BACKFILLED OR SECURELY PLATED DURING NON— WORKING HOURS.
- 31. ACCESS TO ALL ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. AREAS WITH MULTIPLE DRIVES SHALL HAVE AT LEAST HALF OF THE DRIVES OPEN AT ALL TIMES. PROPERTIES WITH A SINGLE ACCESS WILL REQUIRE STAGED CONSTRUCTION; SHORT— TERM FULL CLOSURE OF A SINGLE ACCESS WILL BE PERMITTED WITH THE PROPERTY OWNER AND/OR TENANT'S AGREEMENT. SUCH FULL CLOSURES SHALL BE SCHEDULED AND COORDINATED WITH THE PROPERTY OWNER/TENANT.
- 32. AT ALL STORM SEWER AND SANITARY SEWER CROSSINGS, THE TRENCH BACKFILL SHALL CONSIST OF COMPACTED GRANULAR MATERIAL, COLS ITEM 912, BETWEEN THE DEEPER AND SHALLOWER PIPE. FOR WATER LINE CROSSINGS, SEE WATER LINE GENERAL NOTE #13.
- 33. COMPACTED GRANULAR MATERIAL, COLS ITEM 912 SHALL CONSIST OF NATURAL, BROKEN OR CRUSHED STONE, CRUSHED GRAVEL, OR CRUSHED SLAG. SYNTHETIC OR MAN—MADE MATERIALS ARE UNACCEPTABLE.

- 34. BACKFILL FOR STORM SEWER AND SANITARY SEWER TRENCHES UNDER PAVEMENT AND WITHIN THE RIGHT-OF-WAY SHALL BE COMPACTED GRANULAR MATERIAL, COLS ITEM 912, TO THE PAVEMENT SUBGRADE. WHERE STORM SEWER AND SANITARY SEWER TRENCHES CROSS THE PAVEMENT, COLS ITEM 912 SHALL EXTEND THE FULL WIDTH OF THE RIGHT-OF-WAY, AND TO WITHIN 6 INCHES OF FINISHED GRADE WHERE NOT UNDER PAVEMENT. FOR BACKFILL FOR WATER LINE TRENCHES UNDER PAVEMENT AND WITHIN THE RIGHT-OF-WAY, SEE WATER LINE GENERAL NOTE #14.
- 35. BACKFILL FOR STORM SEWER AND SANITARY SEWER TRENCHES PARALLEL TO THE PAVEMENT AND WITHIN THE RIGHT-OF-WAY, WITH THE TOP OF THE TRENCH 3 FEET OR CLOSER TO THE BACK OF CURB OR EDGE OF PAVEMENT OR LOCATED UNDER A PEDESTRIAN PATHWAY, SHALL BE COMPACTED GRANULAR MATERIAL, COLS ITEM 912, TO WITHIN 6 INCHES OF FINISHED GRADE. BACKFILL FOR ALL OTHER STORM SEWER AND SANITARY SEWER TRENCHES WITHIN THE RIGHT-OF-WAY PARALLEL TO THE PAVEMENT, SHALL BE COMPACTED BACKFILL, COLS ITEM 911, EXCEPT THAT COMPACTION SHALL BE TO A MINIMUM 95 PERCENT MAXIMUM DRY DENSITY. PRIOR TO CONSTRUCTION OF THE STREETS, THE CITY ENGINEER MAY REQUIRE SOIL TESTS ON THE BACKFILL. WHERE TEST RESULTS INDICATE THAT THE BACKFILL DOES NOT MEET COMPACTION REQUIREMENTS, THE BACKFILL SHALL BE REMOVED, REPLACED, AND RE-TESTED UNTIL MEETING THOSE REQUIREMENTS. FOR BACKFILL FOR WATER LINE TRENCHES PARALLEL TO THE PAVEMENT, SEE WATER LINE GENERAL NOTE #15.
- 36. THE CONTRACTOR SHALL INSTALL STREET LIGHTS AT THE LOCATIONS SHOWN ON THE PLANS, INCLUDING ALL WIRING AND DISCONNECTS AND PROVIDE A COMPLETE OPERATING LIGHTING SYSTEM THAT COMPLIES WITH THE CITY OF HILLIARD SPECIFICATIONS.
- 37. ALL AREAS FOR UNDERGROUND ELECTRIC AND STREET LIGHTING ELECTRIC, TELEPHONE, AND CABLE TV INSTALLATIONS SHALL BE BROUGHT TO FINISHED GRADE, AS SHOWN ON THE GRADING PLAN, PRIOR TO THEIR BEING INSTALLED. ALL FILL REQUIRED SHALL BE COMPACTED IN ACCORDANCE WITH COLS ITEM 203.12, CONDITION 1. THIS WORK SHALL BE PERFORMED AS PART OF THIS PLAN AND THE COST SHALL BE INCLUDED UNDER ITEM 203.
- 38. ALL SEEDING SHALL BE APPLIED AT THE RATE OF 8 POUNDS (LB.)
  PER 1,000 SQUARE FEET (SF) AND SHALL USE THE FOLLOWING SEED
  MIXTURE:

40% TITIAN TALL FESCUE 40% TARHEEL TALL FESCUE 10% DENIM KENTUCKY BLUEGRASS 10% RENAISSANCE PERENNIAL RYE GRASS

39. COMMERCIAL—GRADE COMPLETE FERTILIZER OF NEUTRAL CHARACTER, CONSISTING OF FAST, AND SLOW RELEASE NITROGEN, 50% DERIVED FROM NATURAL ORGANIC SOURCES OF UREA—FORM, PHOSPHOROUS, AND POTASSIUM AND WITH THE FOLLOWING COMPOSITION SHALL BE APPLIED:

COMPOSITION: 13% NITROGEN, 26% PHOSPHOROUS, AND 12% POTASSIUM BY WEIGHT.

FERTILIZER SHOULD BE APPLIED AT THE RATE OF 6 POUNDS (LB.)
PER 1,000 SQUARE FEET (SF).

40. ALL SIGNS, LANDSCAPING, STRUCTURES OR OTHER APPURTENANCES DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER. THE CONTRACTOR SHALL PAY FOR THE COST OF THIS WORK

#### COH GENERAL NOTES FOR WATER LINES

- 1. CITY OF COLUMBUS WATER DIVISION PERSONNEL ARE TO OPERATE ALL WATER VALVES.
- 2. ANY MODIFICATION OF THE WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE HILLIARD CITY ENGINEER AND THE ADMINISTRATOR, DIVISION OF WATER, CITY OF COLUMBUS.
- 3. ALL WATER LINE MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS OF THE CITY OF COLUMBUS, DIVISION OF WATER.
- 4. NO PERSON SHALL BEGIN CONSTRUCTION OR INSTALLATION OF A PUBLIC WATER MAIN UNTIL PLANS HAVE BEEN APPROVED BY THE STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA).
- 5. APPROVAL OF THESE PLANS IS CONTINGENT UPON THE CITY OF HILLIARD SECURING AN EASEMENT THAT WILL HOLD THE CITY OF COLUMBUS HARMLESS FOR DAMAGES RESULTING FROM MAINTENANCE WORK AND/OR WATER DAMAGES THAT COULD BE ASSOCIATED WITH THIS WATER LINE. PRIOR TO APPROVAL OF THE PLAN BY THE ADMINISTRATOR, DIVISION OF WATER, ALL EASEMENTS REQUIRED FOR WATER MAIN CONSTRUCTION SHALL BE SECURED AND RECORDED.
- 6. ALL WATER METERS ASSOCIATED WITH THIS PROJECT SHALL BE INSTALLED INSIDE OF THE PROPOSED STRUCTURE UNLESS A METER PIT IS APPROVED BY THE ADMINISTRATOR OF THE DIVISION OF WATER. ALL METER PITS MUST BE APPROVED PRIOR TO THE ISSUING OF ANY SERVICE PERMITS AND MUST CONFORM TO STAN— DARD DRAWING L—7103 FOR 5/8 INCH THROUGH 1 INCH METERS OR L—6317 A, B, C, D, & E FOR 1—1/2 INCH OR LARGER METERS.
- 7. WATER LINES SHALL BE LAID WITH A MINIMUM OF 4 FEET O INCHES FROM THE FINISHED SURFACE GRADE TO THE TOP OF THE WATER LINE.
- 8. ALL BENDS, JOINTS DEFLECTIONS, AND FITTINGS SHALL BE BACKED WITH CONCRETE PER CITY OF COLUMBUS STANDARDS.
- 9. ALL WATER LINES SHALL MAINTAIN AT LEAST TEN (10) FEET HORIZONTAL AND ONE & ONE—HALF (1.5) FEET VERTICAL SEPARATION FROM ALL SANITARY OR STORM SEWER LINES.
- 10. ALL DUCTILE IRON WATER MAINS SHALL BE WRAPPED WITH TUBE STYLE 8 MIL LINEAR LOW DENSITY POLYETHYLENE (LLDPE) FILM IN ACCORDANCE WITH STANDARD DRAWINGS L-1003 AND L-1004.

- 11. IN CASE OF CONFLICT IN GRADE BETWEEN WATER LINES AND SEWERS, THE WATER LINE SHALL BE LOWERED DURING CONSTRUCTION. WATER LINES SHALL BE DEFLECTED AROUND STRUCTURES WITHOUT THE USE OF SPECIAL FITTINGS, WHERE POSSIBLE, WITHOUT EXCEEDING THE MANUFACTURE'S ALLOWABLE DEFLECTION.
- 12. IF THE TOP OF THE OPERATING NUT OF A VALVE IS MORE THAN 36 INCHES BELOW FINISHED GRADE, AN EXTENSION STEM SHALL BE FURNISHED TO BRING THE TOP OF THE OPERATING NUT TO WITHIN 24 INCHES OF FINISHED GRADE.
- 13. AT ALL POINTS OF CROSSING OF WATER LINES AND SEWERS, THE TRENCH BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL PER COLS ITEM 801.11, BETWEEN THE DEEPER AND SHALLOWER PIPE.
- 14. BACKFILL FOR WATER LINE TRENCHES UNDER PAVEMENT AND WITHIN THE RIGHT-OF-WAY SHALL BE COMPACTED GRANULAR MATERIAL, COLS ITEM 801.11, TO THE PAVEMENT SUBGRADE. WHERE WATER LINE TRENCHES CROSS THE PAVEMENT, COLS ITEM 801.11 SHALL EXTEND THE FULL WIDTH OF THE RIGHT-OF-WAY, AND TO WITHIN 6 INCHES OF FINISHED GRADE WHERE NOT UNDER PAVEMENT.
- 15. BACKFILL FOR WATER LINE TRENCHES PARALLEL TO THE PAVEMENT AND WITHIN THE RIGHT-OF-WAY, WITH THE TOP OF THE TRENCH 3 FEET OR CLOSER TO THE BACK OF CURB OR EDGE OF PAVEMENT OR LOCATED UNDER A PEDESTRIAN PATHWAY, SHALL BE COMPACTED GRANULAR MATERIAL, COLS ITEM 801.11, TO WITHIN 6 INCHES OF FINISHED GRADE. BACKFILL FOR ALL OTHER WATER LINE TRENCHES WITHIN THE RIGHT-OF-WAY PARALLEL TO THE PAVEMENT, SHALL BE COMPACTED BACKFILL, COLS ITEM 801.12. PRIOR TO CONSTRUCTION OF THE STREETS, THE CITY ENGINEER MAY REQUIRE SOIL TESTS ON THE BACKFILL. WHERE TEST RESULTS INDICATE THAT THE BACKFILL DOES NOT MEET COMPACTION REQUIREMENTS, THE BACKFILL SHALL BE REMOVED, REPLACED, AND RE-TESTED UNTIL MEETING THOSE REQUIREMENTS.
- 16. WATER SERVICE BOXES SHALL BE LOCATED BETWEEN THE CURB AND PROPOSED OR EXISTING SIDEWALK, 1 FOOT FROM THE EDGE OF THE PROPOSED OR EXISTING SIDEWALK. WHEN NO SIDEWALK IS PRESENT OR PROPOSED, WATER SERVICE BOXES SHALL BE LOCATED 2' INSIDE THE RIGHT—OF—WAY OR EASEMENT LINE. REFER TO COLS STANDARD DRAWING L—9901.
- 17. FIRE HYDRANTS SHALL BE INSTALLED PER COLS ITEM 809, AND SHALL MEET CITY OF HILLIARD AND NORWICH TOWNSHIP FIRE DEPARTMENT HYDRANT SPECIFICATIONS INCLUDED IN THIS PLAN.
- 18. ALL WATER LINES SHALL BE CLEANED AND FLUSHED IN ACCORDANCE WITH COLS ITEM 801.13 PRIOR TO HYDROSTATIC TESTING. ANY WATER MAIN 12 INCHES AND LARGER MUST ALSO BE PROPERLY PIGGED PRIOR TO HYDROSTATIC TESTING.
- 19. THE CONTRACTOR SHALL TEST ALL WATER LINES IN ACCORDANCE WITH COLS ITEM 801.14, WITH THE FOLLOWING EXCEPTION: 150 PSI PRESSURE SHALL BE MAINTAINED FOR AT LEAST 2 HOURS, REGARDLESS OF THE AMOUNT OF LEAKAGE. TESTING SHALL BE DONE UNDER THE SUPERVISION OF THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
- 20. ALL WATER LINES SHALL BE DISINFECTED IN ACCORDANCE WITH COLS ITEM 801.15. SPECIAL ATTENTION IS DIRECTED TO APPLICABLE SECTIONS OF A.W.W.A. C-651, PARTICULARLY FOR FLUSHING (SECTION 5) AND FOR CHLORINATING VALVES AND FOR FIRE HYDRANTS (SECTION 7). COST OF WORK IS TO BE INCLUDED IN PRICE BID FOR ITEM 801.
- 21. WHEN WATER LINES ARE READY FOR DISINFECTING, THE DEVELOPER'S ENGINEER SHALL SUBMIT FOUR (4) SETS OF "AS BUILT" PLANS (FULL SIZE SHEETS), AN EXCEL FILE OF THE AS—BUILT WATER LINE COORDINATES SHOWN ON THE PLAN, TWO (2) SETS OF THE COMPLETED WATER SERVICE REPORTS FOR EACH WATER SERVICE CONSTRUCTED, AND A LETTER STATING THAT THE WATER LINES HAVE BEEN PRESSURE TESTED AND NEED TO BE DISINFECTED, TO THE HILLIARD CITY ENGINEER. THE CITY OF HILLIARD WILL, IN TURN, SUBMIT A WRITTEN REQUEST FOR CHLORINATION, THREE (3) SETS OF "AS—BUILT" PLANS (FULL SIZE SHEETS ONLY), THE AS—BUILT SURVEY COORDINATES, THE WATER SERVICE REPORTS, AND THE RESULTS OF THE PRESSURE TEST TO THE CITY OF COLUMBUS, DIVISION OF WATER. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE DISINFECTING OF ALL WATER LINES CONSTRUCTED UNDER THIS PLAN.
- 22. SURVEY COORDINATES SHALL BE OBTAINED FOR THE COMPLETED WATER MAIN CONSTRUCTION AND SHALL INCLUDE ALL VALVES, TEES, CROSSES, BENDS, DEFLECTIONS, PLUGS, REDUCERS, TAPPING SLEEVES, BLOW OFFS, CHLORINATION TAPS, FIRE HYDRANTS, AIR RELEASES, CURB STOPS, CASING PIPE TERMINI, AND OTHER FITTINGS. ADDITIONAL SURVEY COORDINATES ARE REQUIRED ON THE WATER MAIN EVERY 500 FEET WHERE NO FITTING OR OTHER WATER MAIN STRUCTURE IS BEING INSTALLED WITHIN THAT LENGTH OF THE IMPROVEMENT. "SURVEY COORDINATES" INCLUDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO OBTAIN HORIZONTAL AND VERTICAL (NORTHING, EASTING, AND ELEVATION) SURVEY COORDINATES FOR THE WATER MAIN IMPROVEMENTS.

ALL SURVEY COORDINATES SHALL BE REFERENCED TO THE APPLICABLE COUNTY ENGINEER'S MONUMENTS, AND SHALL BE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83) WITH THE (NSRS2007) ADJUSTMENT, WITH FURTHER REFERENCE MADE TO THE OHIO STATE PLANE SOUTH COORDINATE SYSTEM, SOUTH ZONE, WITH ELEVATIONS BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). ALL COORDINATES (NORTHING, EASTING, ELEVATION) SHALL BE REFERENCED TO THE NEAREST HUNDREDTH (NXXXXXXXXXX, EXXXXXXXXXX, ELEVATION XXXXXXX). ALL SURVEY COORDINATES SHALL BE ACCURATE TO WITHIN 1.0 FOOT OR LESS HORIZONTAL AND ONE—TENTH FOOT (0.10) OR LESS VERTICAL.

THE SURVEY COORDINATES SHALL BE DOCUMENTED TO THE HILLIARD CITY ENGINEER IN DIGITAL SPREADSHEET FORMAT AND SHALL INCLUDE THE APPLICABLE ITEM, STATION, NORTHING, EASTING, AND ELEVATION. SURVEY COORDINATES SHALL BE SUBMITTED TO THE HILLIARD CITY ENGINEER ON A BI-WEEKLY BASIS. SURVEY COORDINATES SHALL ALSO BE REQUIRED TO BE SUBMITTED TO THE DIVISION OF WATER AS PART OF THE REQUEST FOR CHLORINATION SUBMITTED BY THE HILLIARD CITY ENGINEER.

- 23. NO SERVICE CONNECTION PERMITS SHALL BE ISSUED OR CONNECTIONS MADE TO ANY SERVICE TAPS UNTIL WATER LINES HAVE BEEN DISINFECTED BY THE CITY OF COLUMBUS, DIVISION OF WATER. WHEN A 3— INCH OR LARGER TAP IS TO OCCUR ON A 20—INCH OR LARGER WATER MAIN, THE CONTRACTOR SHALL NOTIFY THE DIVISION OF WATER OPERATIONS CONTROL CENTER AT (614) 645—7168 TWENTY FOUR (24) HOURS IN ADVANCE OF PERFORMING THE TAP.
- 24. A TAP PERMIT FOR EACH WATER SERVICE MUST BE OBTAINED FROM THE CITY OF HILLIARD AND THE CITY OF COLUMBUS DIVISION OF WATER PRIOR TO MAKING ANY TAPS INTO THE WATER LINE.
- 25. THE PROPOSED WATER LINE SHALL BE LOCATED A MINIMUM DISTANCE OF TWENTY (20) FEET AWAY FROM ANY STRUCTURE, OVERHANG, OR FOOTER.
- 26. ON DEAD END LINES IN CUL-DE-SACS, THE FINAL TWO 3/4 INCH SERVICE TAPS SHALL BE INSTALLED WITHIN TWO (2) FEET OF THE END OF THE MAIN.
- 27. ALL TAPS MADE IN 2-INCH PIPE ARE TO BE MADE WITH FORD SERVICE SADDLE, MODEL S70-203 OR APPROVED EQUAL.
- 28. MAGNETIC LOCATOR TAPE SHALL BE PLACED IN THE TRENCH (6 INCHES  $\pm/-$ ) ABOVE ALL PVC WATER LINES.
- 29. THE CONTRACTOR SHALL IMPRINT A "W", THREE INCHES HIGH, IN THE CURB AT EACH WATER SERVICE LOCATION.
- 30. THE CITY OF COLUMBUS, DIVISION OF WATER WILL BE RESPONSIBLE FOR THE REPAIR AND MAINTENANCE OF THE WATER LINE WITHIN THE EASEMENT AREA. BACKFILLING OF ANY EXCAVATION CAUSED BY THE MAINTENANCE, REPAIR, OR REPLACEMENT OF SAID WATER LINE SHALL BE SUCH THAT THE SURFACE IS RESTORED TO ITS FORMER ELEVATION AS NEAR AS IS REASONABLY POSSIBLE.
- 31. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ALL AFFECTED PROPERTY OWNERS AT LEAST ONE (1) WORKING DAY BUT NOT MORE THAN THREE (3) WORKING DAYS PRIOR TO ANY TEMPORARY INTERRUPTION OF WATER SERVICE. INTERRUPTION OF WATER SERVICE SHALL BE HELD TO A MINIMUM AND SHALL BE APPROVED BY THE CITY ENGINEER.

#### COH GENERAL NOTES FOR STORM SEWERS

- 1. ANY MODIFICATION OF THE WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE HILLIARD CITY ENGINEER.
- 2. THE PROPOSED SANITARY SEWERS AND SERVICES ARE TO BE CONSTRUCTED UNDER PLAN P\_\_\_\_\_\_ PRIOR TO STREET IMPROVEMENTS.
- 3. BEFORE THE CONTRACTOR STARTS ANY WORK ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE OF ANY WORK, REPRESENTATIVES OF THE CITY AND THE CONTRACTOR SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS THAT ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. THE CITY SHALL KEEP RECORDS OF THE INSPECTION IN WRITING.
- 4. ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR, TO THE SATISFACTION OF THE CITY ENGINEER, SHALL CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS.
- 5. PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT CONTRACT ITEMS.
- 6. ALL STORM SEWERS CONSTRUCTED UNDER THIS PLAN SHALL MEET THE REQUIREMENTS OF COLS ITEM 901 WITH A MINIMUM INSIDE DIAMETER OF 12 INCHES.
- 7. ALL NEW CONDUITS, CATCH BASINS AND MANHOLES CONSTRUCTED, AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEANED CONDITION BEFORE THE CITY WILL ACCEPT THE PROJECT.
- 8. ALL INLETS, CATCH BASINS, AND MANHOLES SHALL BE CHANNELIZED.
- 9. ROADWAY UNDERDRAINS SHALL BE DISCHARGED INTO THE NEAREST STORM STRUCTURE AVAILABLE ALONG THE LINE OF FLOW UNLESS SHOWN OTHERWISE ON THE PLANS.
- 10. THE CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED CASTINGS TO MATCH THE SURROUNDING FINISHED GRADE. THE COST OF ALL CASTING ADJUSTMENTS SHALL BE INCLUDED IN THE VARIOUS SEWER ITEMS.
- 11. ALL DRAINAGE SWALES ALONG REAR LOT LINES, SHOWN ON THE GRADING PLAN, SHALL BE CONSTRUCTED TO FINISHED GRADE AS PART OF THIS PLAN AND THE COST SHALL BE INCLUDED UNDER COLS ITEM 203.

PRELIMINARY NOT FOR CONSTRUCTION

EROAD NO. DATE BY DESCRIPTION
09-06-2017 MTB PLANNING COMMISSION APPL
44122 09-27-2017 MTB REVISED PLANNING COMMISSION APPL
497
SEPT 2017
T1730015
JKZ

BEACHWOOD, OH 44122
TEL: 216.378.1490
FAX: 216.378.1497
FAX: 216.378.1497
PROJECT DATE: SEPT 3
PROJECT NO.: T1736
DRAWN BY:



TRILOGY HEALTH SERVICES, LLC

2 /

- 12. ALL STORM WATER DETENTION/RETENTION AREAS SHOWN ON THE GRADING PLAN SHALL BE CONSTRUCTED TO FINISHED GRADE PER COLS ITEM 203, HYDRO-SEEDED, AND HYDRO-MULCHED PER COLS ITEM 659, AS PART OF THIS PLAN. THE COST SHALL BE INCLUDED AS A LUMP SUM UNDER SPECIAL, DETENTION/RETENTION AREA CONSTRUCTION.
- 13. THE CONTRACTOR SHALL PROVIDE TWO ROOF DRAIN OPENINGS IN THE CURB FOR EACH LOT, LOCATED AS DIRECTED BY THE OWNER.
- 14. ALL CATCH BASINS ARE TO BE EQUIPPED WITH EAST JORDAN #5110, TYPE M3 GRATES, OR APPROVED EQUAL.
- 15. UPON COMPLETION OF CONSTRUCTION FOR EACH PHASE OF STORM SEWER WORK, THE DEVELOPER, THROUGH ITS ENGINEER, SHALL FURNISH THE CITY ENGINEER A TABULATION OF STRUCTURE NUMBERS, THE ELEVATION OF THE TOP OF CASTING AS PROPOSED ON THE PLANS, AND THE ELEVATION OF THE TOP OF CASTING, AS BUILT. FURTHER, A TABULATION OF STATIONING AND TOP OF CURB ELEVATION, AS BUILT, AT THE ENDS OF ALL STREETS, THAT ARE TO BE EXTENDED IN THE FUTURE, SHALL BE SUBMITTED. THE CITY ENGINEER WILL DETERMINE ADJUSTMENTS, IF ANY, THAT ARE NECESSARY AND ALL NECESSARY ADJUSTMENTS SHALL BE DONE PRIOR TO SUBMITTAL OF "AS BUILT" DRAWINGS.
- 16. THE ORIGINAL TRACINGS, REVISED "AS BUILT", AND TWO SETS OF PRINTS SHALL BE GIVEN TO THE CITY PRIOR TO ANY TAP PERMITS BEING ISSUED, OR ACCEPTANCE BY THE CITY FOR THE ONE YEAR MAINTENANCE PERIOD. THE INFORMATION SHOWN ON THE "AS BUILT" PLANS SHALL BE FROM FIELD MEASUREMENTS. WATER SERVICES AND MAIN LINE VALVES SHALL BE LOCATED BY STREET STATIONING. TOP OF CASTING ELEVATIONS FOR ALL STORM SEWER STRUCTURES AND ANY VARIANCE IN THE HORIZONTAL LOCATION OF THE UTILITIES FROM THAT SHOWN ON THE APPROVED PLANS, SHALL BE SHOWN.

#### COH GENERAL NOTES FOR SANITARY SEWERS

- 1. ANY MODIFICATION OF THE WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE HILLIARD CITY ENGINEER AND THE ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE, CITY OF COLUMBUS.
- 2. ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
- 3. TEMPORARY BULKHEADS SHALL BE PLACED WHERE INDICATED ON THE PLANS AND SHALL REMAIN IN PLACE UNTIL THE CITY ENGINEER DIRECTS REMOVAL.
- 4. ALL A.B.S. COMPOSITE WALL SEWER PIPE WYE FITTINGS SHALL HAVE A TWO-FOOT (MINIMUM) SERVICE EXTENSION INSTALLED PRIOR TO THE SERVICE BEING CAPPED AND BACKFILL BEING PLACED OVER THE MAINLINE SEWER.
- 5. SERVICE RISERS, COLS ITEM 914, SHALL BE INSTALLED WHERE DEPTHS FROM THE WYES TO THE EXISTING OR PROPOSED GROUND ELEVATION EXCEED 10 FEET. THE TOPS OF RISERS SHALL BE 9 FEET +/- BELOW THE EXISTING OR PROPOSED SURFACE ELEVATION, WHICHEVER IS HIGHER.
- 6. THE CONTRACTOR SHALL FURNISH AND PLACE AS DIRECTED,
  APPROVED WYE POLES MADE OF 2"X2" LUMBER AT ALL WYE
  LOCATIONS, ENDS OF SERVICES, OR AT THE END OF EACH RISER
  WHERE RISERS ARE REQUIRED. WYE POLES SHALL BE VISIBLE FOR
  EACH WYE BEFORE ACCEPTANCE BY THE CITY. THE COST OF THESE
  POLES SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS
  SEWER ITEMS.
- 7. ALL PVC SEWER LINES SHALL BE DEFLECTION TESTED AFTER INSTALLATION, IN ACCORDANCE WITH THE REQUIREMENTS OF ITEM 901 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITION, AND ANY SUPPLEMENTS THERETO.
- 8. UPON COMPLETION OF CONSTRUCTION FOR EACH PHASE OF SANITARY SEWER WORK, THE DEVELOPER, THROUGH ITS ENGINEER, SHALL FURNISH THE CITY ENGINEER A TABULATION OF STRUCTURE NUMBERS, THE ELEVATION OF THE TOP OF CASTING AS PROPOSED ON THE PLANS, AND THE ELEVATION OF THE TOP OF CASTING, AS BUILT. THE CITY ENGINEER WILL DETERMINE ADJUSTMENTS, IF ANY, THAT ARE NECESSARY AND ALL NECESSARY ADJUSTMENTS SHALL BE DONE PRIOR TO SUBMITTAL OF "AS BUILT" DRAWINGS.
- 9. THE ORIGINAL TRACINGS, REVISED "AS BUILT", AND TWO SETS OF PRINTS SHALL BE GIVEN TO THE CITY PRIOR TO ANY TAP PERMITS BEING ISSUED, OR ACCEPTANCE BY THE CITY FOR THE ONE YEAR MAINTENANCE PERIOD. THE INFORMATION SHOWN ON THE "AS BUILT" PLANS SHALL BE FROM FIELD MEASUREMENTS. WYE LOCATIONS AND THE DISTANCE BETWEEN MANHOLES, FOR EACH SECTION OF SEWER, SHALL BE SHOWN AS MEASURED FROM THE NEAREST DOWNSTREAM MANHOLE. TOP OF CASTING ELEVATIONS FOR ALL MANHOLES AND ANY VARIANCE IN THE HORIZONTAL LOCATION OF THE SEWER FROM THAT SHOWN ON THE APPROVED PLANS SHALL BE SHOWN.
- 10. AFTER SEWERS HAVE BEEN CLEANED, PASSED ALL TESTS, AND BEFORE ACCEPTANCE, ALL MAIN LINE SEWERS SHALL BE VIDEO TAPED ON CD OR DVD WITH A NOTATION OF MANHOLE NUMBERS, AN ACCURATE DISTANCE BETWEEN MANHOLES AND LOCATION OF ALL WYE BRANCHES FROM THE NEAREST DOWNSTREAM MANHOLE SHALL BE SHOWN ON THE TAPES. COPIES OF THE TAPES SHALL BE GIVEN TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THE SEWERS.

#### COH GENERAL NOTES FOR MAINTENANCE OF TRAFFIC

- IN ADDITION TO THE REQUIREMENTS OF ITEM 614 MAINTAINING TRAFFIC, THE FOLLOWING SHALL APPLY:
- ALL TRAFFIC CONTROL DEVICES USED FOR MAINTENANCE OF TRAFFIC SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CONSTRUCTION AND MAINTENANCE OPERATIONS" (OMUTCD) (CURRENT EDITION), COPIES OF WHICH ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC, 1980 WEST BROAD STREET, COLUMBUS, OHIO, 43223.

- 2. TRAFFIC CONTROL FOR ANY WORK THAT RESTRICTS TRAFFIC SHALL BE ERECTED IN ADVANCE AND SHALL BE REVIEWED BY THE OFFICE OF THE CITY ENGINEER AT LEAST 10 DAYS PRIOR TO THE START OF WORK. THE OFFICE OF THE CITY ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF THE ROAD CLOSURE AND IMPLEMENTATION OF THE MAINTENANCE OF TRAFFIC PLAN. ALL MAINTENANCE OF TRAFFIC SIGNS SHALL BE COVERED OR REMOVED FROM VIEW OF TRAFFIC WHEN THEY ARE NOT APPLICABLE, AS DETERMINED BY THE ENGINEER.
- 3. NO LANE CLOSURE SHALL BE IMPLEMENTED DURING THE HOURS OF 7:00 A.M. TO 9:00 A.M. OR 3:30 P.M. TO 6:00 P.M. ALL OTHER HOURS, THE CONTRACTOR SHALL MAINTAIN TRAFFIC ACCORDING TO APPLICABLE GUIDELINES ESTABLISHED IN THE ODOT STANDARD CONSTRUCTION DRAWINGS AND IN THE OMUTCD. IN SITUATIONS WHERE ONE—LANE, TWO—WAY OPERATIONS MUST BE MAINTAINED, THE MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH MT—97.10 AND MT—97.11 OF THE ODOT STANDARD CONSTRUCTION DRAWINGS AND FIGURE 6H—10 OF THE OMUTCD. UNIFORMED, OFF—DUTY CITY OF HILLIARD POLICE OFFICERS SHALL REPLACE THE FLAGMEN ON THESE PAGES, AND THE OFFICERS SHALL BE PRESENT WHENEVER ONE—LANE, TWO—WAY OPERATION IS IN EFFECT.
- 4. ALL TRAFFIC LANES SHALL BE FULLY OPEN TO TRAFFIC AT ALL TIMES ON \_\_\_\_\_\_.
- 5. ONE-WAY \_\_\_\_ LANE TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON \_\_\_\_\_.
- 6. TWO-WAY, ONE-LANE TRAFFIC SHALL BE MAINTAINED AT ALL TIMES, IN ACCORDANCE WITH FIGURE 6H-10 OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES ON \_\_\_\_\_\_\_.
- 7. TWO-WAY, TWO-LANE (ONE LANE IN EACH DIRECTION) TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON \_\_\_\_\_\_ DURIN THE HOURS OF 7:00 A.M. TO 9:00 A.M. AND 3:30 P.M. TO 6:00 P.M.
- MAY BE CLOSED FOR A

  MAXIMUM OF \_\_\_\_\_\_ HOUR(S)/DAY(S) BETWEEN THE HOURS OF

  A.M./P.M. AND \_\_\_\_\_ A.M./P.M. IN ACCORDANCE WITH PAGE

  6H-20 OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL

  DEVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY

  NECESSARY SIGNING.
- 9. A FLASHING ARROW PANEL (48" X 96" TYPE "C") SHALL BE USED FOR LANE CLOSURES IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 10. STEADY BURNING, TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT. CONES ARE NOT APPROVED FOR USE AT NIGHT.
- 11. THE ROADWAY SHALL NOT BE OPENED TO TRAFFIC UNTIL
  PERMANENT TRAFFIC CONTROLS ARE IN PLACE, OR UNTIL
  TEMPORARY TRAFFIC CONTROLS, APPROVED BY THE CITY ENGINEER,
  ARE INSTALLED. THE CONTRACTOR ASSUMES ALL LIABILITY FOR THE
  PREMATURE REMOVAL OF TEMPORARY TRAFFIC CONTROLS.
- 12. THE CONTRACTOR SHALL MAINTAIN ALL PERMANENT TRAFFIC CONTROLS NOT IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROLS THROUGHOUT THIS PROJECT. PERMANENT TRAFFIC CONTROLS MAY BE TEMPORARILY RELOCATED, AS APPROVED BY THE CITY ENGINEER. THE CONTRACTOR SHALL ASSUME LIABILITY FOR MISSING, DAMAGED AND IMPROPERLY PLACED SIGNS.
- 13. IT IS THE POLICY OF THE HILLIARD POLICE DEPARTMENT (HPD 614—876—7321) TO PROVIDE SPECIAL DUTY OFFICERS FOR ALL PROJECTS IN THE CITY OF HILLIARD, WHEN REQUIRED OR REQUESTED. HOWEVER, TO COMPLY WITH THIS POLICY AND ALLOW APPROPRIATE TIME FOR SCHEDULING, THEY REQUIRE A FORTY—EIGHT (48) HOUR ADVANCE NOTIFICATION. IF THEY ARE UNABLE TO FILL THE REQUEST, THEY WILL GIVE THE APPROPRIATE CONTRACTOR TWENTY—FOUR (24) HOURS NOTICE, SO THEY MAY MAKE ALTERNATE ARRANGEMENTS. IN THE EVENT OF CANCELLATION, THEY REQUIRE AT LEAST TWO (2) HOURS NOTIFICATION, OTHERWISE THE CONTRACTOR WILL BE OBLIGATED TO PAY THREE (3) HOURS SHOW—UP TIME AT THE SPECIAL DUTY RATE. A POLICE OFFICER CAN BE FURNISHED AT NO CHARGE FOR SHORT DURATIONS OF FIFTEEN (15) MINUTES OR LESS WITH A TWO (2) HOUR PRIOR NOTICE TO THE HPD AND THE ENGINEER.
- 14. IF, IN THE OPINION OF THE CITY ENGINEER OR POLICE, THE CONTRACTOR IS NOT PROVIDING PROPER MAINTENANCE OF TRAFFIC, THE CITY ENGINEER WILL INSTALL THE APPROPRIATE TRAFFIC CONTROL DEVICES, AND OFF DUTY POLICE OFFICERS WILL BE ASSIGNED TO THE PROJECT, ALL AT THE CONTRACTOR'S EXPENSE.

#### COH GENERAL NOTES FOR TRAFFIC CONTROL

- 1. ALL TRAFFIC CONTROL SHALL BE REVIEWED BY THE OFFICE OF THE CITY ENGINEER AT LEAST TEN (10) DAYS PRIOR TO START OF WORK ON THIS PROJECT.
- 2. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED & ERECTED BY THE CONTRACTOR IN ACCORDANCE WITH THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (OMUTCD) (CURRENT EDITION), COPIES OF WHICH ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC, 1980 WEST BROAD STREET, COLUMBUS, OHIO, 43223.
- 3. ALL SIGN SUPPORTS SHALL BE 2-INCH SQUARE GALVANIZED POSTS WITH DIE CUT KNOCKOUTS (TELESPAR QWIK-PUNCH SIGNPOSTS OR APPROVED EQUAL) AND A SINGLE BREAKAWAY ANCHOR.
- 4. ANCHORS SHALL BE 2 ¼-INCH SQUARE, 42-INCH LONG, AND EMBEDDED SUCH THAT 2 INCHES OF ANCHOR REMAINS ABOVE GROUND LEVEL. THE OVERLAP OF THE POST WITHIN THE ANCHOR SLEEVE SHALL BE 8 INCHES. SEE ODOT STANDARD CONSTRUCTION DRAWING, TC-41.20.
- 5. ALL SIGNS SHALL BE ERECTED WITH A 7-FOOT MINIMUM VERTICAL CLEARANCE BETWEEN THE EDGE OF PAVEMENT AND THE BOTTOM OF SIGN FOR BOTH CURB AND DITCH SECTIONS. HORIZONTAL CLEARANCES FOR BOTH CURB AND DITCH SECTIONS SHALL BE AS PER OMUTCD/ODOT STANDARDS. SEE OMUTCD FIGURE 2A-1.

6. STREET SIGNS SHALL MEET THE CURRENT REQUIREMENTS OF THE CITY OF HILLIARD, DIVISION OF ENGINEERING. CONTACT THE TRAFFIC ENGINEER AT 876-7361 FOR CURRENT INFORMATION.

#### COH FIRE HYDRANT SPECIFICATIONS

- 1. FIRE HYDRANTS SHALL BE POST TYPE, MADE OF CAST IRON, AND SHALL CONFORM IN ALL RESPECTS TO THE "AMERICAN WATER WORKS ASSOCIATION STANDARD FOR DRY—BARREL FIRE HYDRANTS", ANSI/AWWA C502—85, EXCEPT WHERE MODIFIED HEREIN.
- 2. MAIN VALVE SHALL BE COMPRESSION TYPE OPENING AGAINST THE PRESSURE AND CLOSING WITH THE PRESSURE. MAIN VALVE SEAT SHALL BE MADE OF BRONZE AND SHALL BE DESIGNED TO ALLOW EASY REPLACEMENT IN THE FIELD. THE DESIGN SHALL ELIMINATE THE CONTACT OF DISSIMILAR METALS IN AREAS OF THE HYDRANT THAT ARE SUBJECT TO THE CONTINUOUS PRESENCE OF MOISTURE.
- 3. ALL INTERNAL WORKING PARTS SHALL BE REMOVABLE FROM THE TOP OF THE HYDRANT, WITH SIMPLE TOOLS, AND WITHOUT DISTURBING THE GROUND LINE JOINT OR THE UPPER SECTION OF THE HYDRANT BARREL.
- 4. BREAKABLE TRAFFIC FEATURES SHALL BE PROVIDED, AND SHALL INCLUDE A BREAKABLE SAFETY FLANGE ON THE GROUND LINE JOINT, AND A BREAKABLE COUPLING ON THE MAIN VALVE STEM AT THE GROUND LINE JOINT. THE DESIGN SHALL ASSURE THAT ON HEAVY IMPACT, THE UPPER AND LOWER SECTIONS OF THE HYDRANT WILL BREAK APART CLEANLY WITHOUT DAMAGE TO ANY OTHER HYDRANT PARTS. THE GROUND LINE JOINT SHALL BE DESIGNED TO ALLOW THE NOZZLE SECTION OF THE HYDRANT TO BE ROTATED 360 DEGREES.
- 5. NOZZLES SHALL BE BRONZE AND REPLACEABLE, DESIGNED FOR EASY REMOVAL FROM THE HYDRANT BARREL, IN THE FIELD, WITH SIMPLE TOOLS.
- 6. MAIN VALVE OPENING SHALL BE 4-1/2 INCHES IN DIAMETER FOR USE IN RESIDENTIAL AREAS AND 5-1/4 INCHES IN DIAMETER FOR USE IN COMMERCIAL AREAS & MULTI-FAMILY DEVELOPMENTS AS DEFINED BY THE OHIO BUILDING CODE.
- 7. TWO (2) HOSE NOZZLES, 2-1/2 INCHES INSIDE DIAMETER WITH NATIONAL STANDARD THREADS.
- 8. ONE (1) PUMPER NOZZLE, 4-1/2 INCHES INSIDE DIAMETER WITH NATIONAL STANDARD THREADS.
- 9. ALL FIRE HYDRANTS INSTALLED IN THE CITY OF HILLIARD SHALL BE FITTED WITH A 5" STORZ CONNECTION WITH NATIONAL STANDARD THREAD IN ACCORDANCE WITH NORWICH TOWNSHIP FIRE DEPARTMENT STANDARDS.
- 10. MAIN VALVE SHALL OPEN COUNTERCLOCKWISE (LEFT).
- 11. OPERATING NUT SHALL BE PENTAGON SHAPED, MEASURING 1-1/2 INCHES FROM POINT TO OPPOSITE FLAT.
- 12. BURY SHALL BE FIVE (5) FEET UNLESS OTHERWISE SPECIFIED.
- 13. DRAINING DEVICES SHALL BE ELIMINATED OR THE DRAIN HOLES PLUGGED.
- 14. THE SHOE SHALL HAVE A SIX (6) INCH DIAMETER INLET AND A MECHANICAL JOINT CONNECTION WITH ACCESSORIES.
- 15. FOR PUBLICLY MAINTAINED HYDRANTS (LOCATED IN PUBLIC STREET RIGHT-OF-WAY OR AN ABUTTING EASEMENT), THE COLOR OF THE BARREL AND CAPS SHALL BE NAVY BLUE, RUST-OLEUM #7723830 OR APPROVED EQUAL, AND THE COLOR OF THE BONNET SHALL BE WHITE
- 16. FOR PRIVATELY MAINTAINED HYDRANTS (LOCATED ON PRIVATE PROPERTY), THE COLOR OF THE BARREL AND CAPS SHALL BE RED, AND THE COLOR OF THE BONNET SHALL BE WHITE.
- 17. THE CONTRACTOR/DEVELOPER SHALL SUBMIT DETAILED DRAWINGS AND SPECIFICATIONS FOR THE HYDRANT TO THE SERVICE DIRECTOR FOR APPROVAL, PRIOR TO INSTALLATION.
- 18. WHERE FOUR (4) OR MORE FIRE HYDRANTS ARE TO BE INSTALLED ON THE PROJECT, OR ANY PHASE OF THE PROJECT, THE CONTRACTOR, DEVELOPER, OR OWNER SHALL FURNISH AND DELIVER TO THE CITY OF HILLIARD, AT NO COST TO THE CITY, ONE (1) COMPLETE FIRE HYDRANT. WHEN MORE THAN TEN (10) FIRE HYDRANTS ARE INSTALLED, TWO (2) COMPLETE FIRE HYDRANTS SHALL BE FURNISHED AND DELIVERED TO THE CITY OF HILLIARD, AT NO COST TO THE CITY. EACH FIRE HYDRANT SUPPLIED TO THE CITY SHALL BE COMPLETE WITH ACCESSORIES, INCLUDING OPERATING WRENCH, SPECIAL WRENCHES AND TOOLS, AND LUBRICANTS NECESSARY FOR THE OPERATION, MAINTENANCE AND REPAIR OF FIRE HYDRANTS.
- 19. FIRE HYDRANTS APPROVED FOR USE IN THE CITY OF HILLIARD ARE THE AMERICAN DARLING "MARK 73" OR "B-84-B", THE CLOW "MEDALLION", AND THE MUELLER "CENTURION".

#### COH SPECIAL NOTES

- 1. HIGH DENSITY POLYETHYLENE (HDPE) CORRUGATED PIPE WITH INTERNALLY FORMED SMOOTH INTERIOR WALL, ADS N-12 OR APPROVED EQUAL, MAY BE SUBSTITUTED FOR REINFORCED CONCRETE PIPE IN PAVED AND NON-PAVED AREAS. THIS INCLUDES APPLICATIONS INSIDE THE RIGHT-OF-WAY.
- 2. IF HDPE PIPE IS SUBSTITUTED FOR RUBBER "O"-RING GASKET (ASTM C361) PIPE AS REQUIRED ON THE PLANS, THE HDPE PIPE JOINTS SHALL BE MADE USING WATERTIGHT COUPLERS WITH "O"-RING GASKET, ADS WT OR APPROVED EQUAL. ASAVLL OTHER HDPE PIPE APPLICATIONS SHALL HAVE A BELL AND SPIGOT JOINT WITH RUBBER GASKET MEETING ASTM F477.

- 3. GREEN WARNING TAPE 6" WIDE, MARKED "CAUTION SEWER LINE BURIED BELOW" SHALL BE PLACED ON TOP OF THE BEDDING MATERIAL FOR THE ENTIRE LENGTH OF PIPE.
- 4. BEDDING SHALL BE PER COLUMBUS STANDARD DRAWING AA-S149.
- 5. BACKFILL WITHIN THE RIGHT-OF-WAY SHALL BE ITEM 911 OR ITEM 912 PER CITY OF HILLIARD GENERAL NOTES 34 & 35.
- 6. BACKFILL OUTSIDE THE RIGHT-OF-WAY SHALL BE ITEM 911 PER CITY OF HILLIARD GENERAL NOTE 35 AND PER COLUMBUS ITEM 901.04.
- 7. ALL HDPE PIPE SHALL BE MANDREL TESTED PER COLUMBUS ITEM 901.21.

#### MANNIK & SMITH GROUP (MSG) GENERAL CONSTRUCTION NOTES:

- 1. ALL CONSTRUCTION SHALL COMPLY WITH LOCAL MUNICIPALITY AND COUNTY CODES AND STANDARDS. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE AND LOCAL REGULATIONS.
- 2. ALL CONSTRUCTION WITHIN A DOT RIGHT OF WAY SHALL COMPLY WITH ALL DEPARTMENT OF TRANSPORTATION STANDARDS.
- 3. ALL WORK WITHIN RIGHT OF WAY TO INCLUDE TRAFFIC CONTROL IN ACCORD WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND PER ALL CITY REQUIREMENTS. ROAD MUST REMAIN OPEN AT ALL TIMES. CONTRACTOR SHALL PREPARE A MAINTENANCE OF TRAFFIC PLAN AND SUBMIT TO THE CITY AND OWNER FOR APPROVAL PRIOR TO START OF CONSTRUCTION. CONTRACTOR TO COORDINATE ANY NECESSARY LANE CLOSURES WITH THE CITY.
- 4. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE OWNER IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO CONSTRUCTION. ANY CONFLICT BETWEEN DRAWINGS AND THE SPECIFICATIONS SHALL BE CONFIRMED WITH THE CONSTRUCTION MANAGER PRIOR TO BIDDING.
- 5. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE ILLUSTRATIVE IN NATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING. IF CONDITIONS ENCOUNTERED ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- 6. SHOULD ANY UNCHARTED, OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE ENGINEER IMMEDIATELY BEFORE PROCEEDING FURTHER WITH THE WORK IN THIS AREA.
- 7. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SHOULD ANY DISCREPANCY REGARDING THE PROPOSED WORK OR UNFORESEEN CONDITIONS ARISE PRIOR TO PROCEEDING FURTHER WITH THE AFFECTED WORK.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS FOR THE PROJECT AND NOTIFYING THE OWNER AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO CONSTRUCTION.
- 9. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER, LOCAL MUNICIPALITY AND/OR UTILITY COMPANY. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY OR PERMANENT SERVICE HAS BEEN PROVIDED.
- 10. CONTRACTOR TO COORDINATE TEMPORARY UTILITY OUTAGES WITH APPLICABLE UTILITY COMPANY AND CITY AND NOTIFY NEIGHBORING EFFECTED OWNERS NO LESS THAN 72 HOURS PRIOR TO PLANNED OUTAGE. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY CONSTRUCTION PERMITS REQUIRED TO PERFORM ALL THE WORK. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
- 11. THE CONTRACTOR SHALL ABIDE BY ALL OSHA, FEDERAL, STATE AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT THE POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS.
- 12. THE CONTRACTOR SHALL RESTORE ANY STRUCTURES, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS, ETC. WITHIN THE SITE OR ADJOINING PROPERTIES DISTURBED DURING DEMOLITION OR CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AND TO THE SATISFACTION OF THE OWNER, LOCAL MUNICIPALITY, AND STATE.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL AND MAINTAIN TRAFFIC DEVICES FOR PROTECTION OF PEDESTRIANS AND VEHICLES CONSISTING OF DRUMS, BARRIERS, SIGNS, LIGHTS, FENCES AND UNIFORMED TRAFFIC CONTROLLERS IN ACCORDANCE WITH ODOT REGULATIONS AND/OR AS REQUIRED OR DIRECTED BY THE SITE ENGINEER OR CONSTRUCTION MANAGER OR LOCAL GOVERNING AUTHORITIES. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC LANES AND PEDESTRIAN WALKWAYS AT ALL TIMES UNLESS WRITTEN APPROVAL FROM ODOT, LOCAL MUNICIPALITY, COUNTY, OR OTHER GOVERNING AUTHORITY IS RECEIVED.
- 14. THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES.
- 15. THE OWNER AT ITS DISCRETION RESERVES THE RIGHT TO MODIFY THE DETAILS AND STANDARDS OF CONSTRUCTION FOR ALL PRIVATE FACILITIES FROM THAT INDICATED ON THE APPROVED PLAN, PROVIDED THAT THE ALTERNATE STANDARD COMPLIES WITH LOCAL CODE AND/OR UTILITY COMPANY REQUIREMENTS AND THE GENERAL DESIGN INTENT OF THE PROJECT IS NOT COMPROMISED.
- 16. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS, MATERIALS AND PLAN SPECIFICATIONS TO THE OWNER AND LOCAL UTILITY COMPANIES AS REQUIRED FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 15 WORKING DAYS FOR REVIEW.

- 17. INFORMATION ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL RECORD MAPS AND FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES INCLUDING SERVICES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT OHIO UTILITY PROTECTION SERVICE AT 1-800-362-2764 AT LEAST 72 HOURS BEFORE START OF WORK AND VERIFY ALL EXISTING UTILITY LOCATIONS.
- 18. ANY DEFECTS DISCOVERED IN NEW CONSTRUCTION, WORKMANSHIP, EQUIPMENT, OR MATERIALS SHALL BE REPAIRED, OR CORRECTED BY APPROVED METHODS AS DIRECTED BY AND AT NO ADDITIONAL COST TO THE OWNER.
- 19. ALL DISTURBANCE INCURRED TO CITY OR STATE PROPERTY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE CITY OF THE LOCAL AND/OR OHIO DOT.
- 20. THE LIMITS OF CLEARING AND GRADING SHALL BE FIELD STAKED 48 HOURS (2 WORKING DAYS) PRIOR TO THE PRE CONSTRUCTION MEETING. AREAS BEYOND THE LIMITS OF CLEARING AND GRADING SHALL NOT BE DISTURBED INCLUDING THE STOCKPILE OF ANY MATERIALS OR CONSTRUCTION TRAFFIC.
- 21. WHEREVER UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED THAT ARE NOT INDICATED ON THE PLANS, THE WORK SHALL BE DISCONTINUED UNTIL THE PROJECT ENGINEER AND OWNER APPROVE THE METHOD AND MATERIALS TO BE INCORPORATED INTO THE WORK.
- 22. ALL ROAD SURFACES, EASEMENTS, OR RIGHT-OF-WAY DISTURBED BY THE CONSTRUCTION OF ANY PART OF THESE IMPROVEMENTS ARE TO BE RESTORED ACCORDING TO THE CITY REQUIREMENTS.
- REPRESENTATIVE IF SUSPECTED HAZARDOUS MATERIAL OR ANY OTHER MATERIAL THAT MAY CREATE A HEALTH RISK IS DISCOVERED ON SITE.

23. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OR ITS

PROVIDED BY THE CONTRACTOR AT NO COST TO THE OWNER.

25. IF MUD, SOIL, OR OTHER DEBRIS IS DEPOSITED ON ADJACENT STREETS, ROADS, OR OTHER PROPERTY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE

24. ANY TRAFFIC CONTROL REQUESTED OR REQUIRED BY THE CONTRACTOR WILL BE

REMOVAL OF SUCH AT THE END OF EACH WORK DAY, OR AS REQUIRED DURING

- 26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PLANT TICKETS FOR ALL MATERIALS DELIVERED TO THE SITE. PLANT TICKETS MUST SHOW NET QUANTITY OF DELIVERED MATERIAL. MATERIAL DELIVERED OR PLACED WITHOUT PLANT TICKETS SHALL BE REMOVED AND PROPERLY DISPOSED AT THE EXPENSE
- 27. THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT, THE EXISTING RIGHT—OF—WAYS CONSTRUCTION AND PERMANENT EASEMENTS AND SHALL NOT TRESPASS UPON OTHER PROPERTY WITHOUT THE WRITTEN CONSENT OF THE OWNER.
- 28. WHERE CONFLICT ARISES BETWEEN ALL SPECIFICATIONS (BOOK OR PLAN BASED) INCLUDING CITY REQUIREMENTS, THE MORE STRINGENT SPECIFICATION SHALL PREVAIL.
- 29. FINAL CLEANUP: THE CONTRACTOR SHALL CLEAN—UP ALL DEBRIS AND MATERIALS RESULTING FROM CONSTRUCTION AND SHALL RESTORE ALL SURFACES, STRUCTURES, DITCHES AND PROPERTY TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER AND ALL APPLICABLE GOVERNMENTAL AND REGULATORY AGENCIES.

#### ISG OHIO FPA NOTES:

THE WORK DAY.

OF THE CONTRACTOR.

- 1. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
- 2. A TEN FOOT MINIMUM HORIZONTAL SEPARATION (OUT-TO-OUT, CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND SANITARY SEWER.
- 3. AN 18 INCH MINIMUM VERTICAL SEPARATION (OUT-TO-OUT CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND SANITARY SEWER AT ALL CROSSINGS.
- 4. A TEN FOOT MINIMUM HORIZONTAL SEPARATION (OUT-TO-OUT CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND STORM SEWER.
- 5. AN 18 INCH MINIMUM VERTICAL SEPARATION (OUT-TO-OUT CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND STORM SEWER AT ALL CROSSINGS. BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS.
- 6. A MINIMUM PRESSURE OF 20 PSI IS TO BE MAINTAINED AT GROUND LEVEL AT ALL POINTS IN THE DISTRIBUTION UNDER ALL CONDITIONS OF FLOW.

ANTILE ROAD NO. DATE BY DESCRIPTION O9-06-2017 MTB PLANNING COMMISSION APPLICATION O9-27-2017 MTB REVISED PLANNING COMMISSION APPLICATION O9-27-2017 MTB REVISED PLANNING COMMISSION APPLICATION OF TAXON OF TAXON



TRILOGY HEALTH SERVICES, LLC

3

PRELIMINARY NOT FOR CONSTRUCTION

#### MSG DEMOLITION NOTES:

- . THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL AND STATE PERMITS REQUIRED FOR DEMOLITION WORK.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL RUBBISH, TRASH, DEBRIS, AND ORGANIC MATERIAL IN A LAWFUL MANNER
- 3. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER AND OWNER FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT, AND/OR EXISTING FACILITIES OCCURRING IN THE COURSE OF THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
- 4. ALL UTILITY REMOVAL, RELOCATION, CUTTING, CAPPING, AND/OR ABATEMENT SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY LISTED ON THE PLANS.
- 5. ALL DEMOLISHED MATERIALS SHALL BE TAKEN FROM THE SITE IMMEDIATELY (UNLESS OTHERWISE NOTED) AND DISPOSED OFF-SITE IN ACCORDANCE WITH ALL LAWS, REGULATIONS AND ORDINANCES. NO BURNING OF ANY MATERIALS WILL BE ALLOWED ON OR OFF SITE. NO CLEARED OR GRUBBED MATERIAL SHALL BE BURIED OR LEFT ON SITE.
- 6. MATERIALS NOTED ON THE PLANS TO BE SALVAGED TO OWNER SHALL BE STORED IN AREAS INDICATED ON THE PLANS, OR TO THE OWNERS SATISFACTION.
- 7. USE SUITABLE METHODS TO LIMIT DUST AND DIRT TO ADJACENT STRUCTURES OR PROPERTY. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS TO EXISTING CONDITIONS PRIOR TO THE START OF THE DEMOLITION WORK.
- 8. THE CONTRACTOR SHALL PROTECT TREES, LANDSCAPING, SITE IMPROVEMENTS, AND OTHER ITEMS NOT SCHEDULED FOR CLEARING, OR THAT MIGHT BE DAMAGED BY CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING ANY ITEMS THAT ARE DAMAGED.
- 9. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY EROSION, POLLUTION, AND DUST CONTROL MEASURES THROUGHOUT THE ENTIRE CONSTRUCTION PROJECT. REFERENCE THE SWPPP PLAN, NOTES AND DETAILS.
- 10. THE BUILDING PAD AREA IS DEFINED AS THE AREA TWENTY (20) FEET OUTSIDE OF THE PROPOSED BUILDING FOOTPRINT, INCLUDING ATTACHED WALKWAYS. CANOPIES, SIDEWALKS, LOADING DOCKS, UTILITY PADS, AND ANY OTHER SUCH APPURTENANCES.
- 11. ANY AND ALL DAMAGE TO EXISTING PAVEMENT WITHIN THE LAYDOWN AREA SHALL BE REPAIRED.
- ALL UTILITIES NOT MARKED FOR REMOVAL OR RELOCATION SHALL REMAIN INTACT. THE CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE TO EXISTING UTILITIES NOT MARKED FOR REMOVAL OR RELOCATION AT THEIR SOLE EXPENSE.
- 13. CONTRACTOR SHALL PERFORM ALL CLEARING, GRUBBING, REMOVAL OF TREES, STUMPS, VEGETATION, AND DEBRIS NECESSARY TO PERFORM THE WORK INDICATED HEREIN. THAT CONTRACTOR SHALL LIMIT LAND DISTURBANCE TO ONLY THAT REQUIRED TO COMPLETE THE PROPOSED IMPROVEMENTS. NO CLEARED OR GRUBBED MATERIAL SHALL BE BURIED OR LEFT ON SITE.

#### MSG LAYOUT AND PAVING NOTES:

- . ALL SITE DIMENSIONS ARE REFERENCED TO THE FACE OF CURBS OR EDGE OF PAVING UNLESS OTHERWISE NOTED. ALL BUILDING DIMENSIONS ARE REFERENCED TO THE OUTSIDE FACE OF THE STRUCTURE UNLESS OTHERWISE NOTED.
- 2. ALL PAVING MATERIALS FURNISHED AND WORK COMPLETED SHALL BE IN STRICT OTHERWISE SPECIFIED. THE CONTRACTOR SHALL SUBMIT A JOB-MIX FORMULA FOR THE BITUMINOUS PAVEMENT TO THE CONSTRUCTION MANAGER FOR REVIEW AND APPROVAL AT LEAST 14 DAYS PRIOR TO THE PLACEMENT OF BITUMINOUS
- 3. ASPHALT SURFACE COURSE SHALL BE LAID WITH THE DIRECTION OF TRAFFIC FLOW IN ALL DRIVE LANES WITHIN PARKING FIELDS.
- 4. DO NOT PLACE MIX ON FROZEN OR WET SURFACES, OR WHEN PRECIPITATION IS
- 5. DO NOT PLACE MIX WHEN AIR OR SURFACE TEMPERATURE IS BELOW THE FOLLOWING:
- 5.1. BINDER COURSE AND WALKS 40 °F
- 5.2. WEARING COURSE, ROADWAYS AND PARKING AREAS 50 °F
- 6. ANY MATERIAL DELIVERED TO THE SPREADER HAVING A TEMPERATURE LOWER THAN 250 °F SHALL NOT BE USED.
- 7. THE MINIMUM ROLLER WEIGHT FOR PAVEMENT SHALL BE TEN (10) TON. ALL COURSES SHALL BE COMPACTED TO A MINIMUM OF NINETY-THREE (93%) PERCENT OF THEORETICAL MAXIMUM DENSITY (TMD).
- B. ALL PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO AASHTO AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. ALL SIGNS SHALL BE CONSTRUCTED OF FLAT SHEET ALUMINUM IN ACCORDANCE WITH STATE HIGHWAY SPECIFICATIONS. STEEL SIGN POSTS SHALL BE USED AND CONFORM TO ASTM A36 OR ASTM A441 AND SHOULD BE GALVANIZED IN ACCORDANCE WITH AASHTO M111.
- 9. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS AS SHOWN ON THE PLANS. PAVEMENT MARKINGS SHALL BE APPLIED PER MANUFACTURER RECOMMENDATIONS. APPLY PAINT TO CLEAN, DRY SURFACES TO YIELD SHARP DEFINITION OF EDGES. AIR TEMPERATURE 50°F MINIMUM. APPLY TWO (2) COATS.
- 10. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS AND SHALL BE EITHER COLD LAID PLASTIC TAPE OR PAINTED AS DESIGNATED ON THE PLANS OR PAVEMENT MARKING DETAILS.
- 11. THE CONTRACTOR SHALL REMOVE CONFLICTING PAVEMENT MARKINGS IN A METHOD APPROVED BY ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS.
- 12. DIRECTIONAL TRAFFIC ARROWS SHALL BE PAINTED WHITE UNLESS OTHERWISE
- 13. A MINIMUM CLEARANCE OF 2 FEET SHALL BE MAINTAINED FROM THE FACE OF CURB AND ANY PART OF A LIGHT POLE OR TRAFFIC SIGN.

- 14. CONTRACTOR SHALL SAW-CUT IN A NEAT, STRAIGHT LINE FOR SMOOTH TRANSITIONS AT TIE-INS TO EXISTING EDGES OF PAVEMENT AND AT COLD JOINTS OF RECENTLY PAVED PAVEMENT.
- 15. JOINTS OR SCORE MARKS ARE TO BE SHARP AND CLEAN WITHOUT SHOWING EDGES OF JOINTING TOOL.
- 16. CONTRACTOR SHALL SAWCUT TIE-INS AT EXISTING CURBS TO ENSURE SMOOTH TRANSITIONS. CONTRACTOR SHALL SAWCUT AND TRANSITION TO EXISTING PAVEMENT TO ENSURE POSITIVE DRAINAGE.
- 17. ALL CONCRETE SHALL BE 6% (+/-1½%) AIR ENTRAINED, 3/4"AGGREGATE AND CONFORM TO A 28 DAY STRENGTH OF 4,000 PSI MINIMUM AND SHALL HAVE A MAXIMUM W/C OF 0.50. ALL CONCRETE SHALL BE MADE WITH TYPE I OR TYPE II CEMENT UNLESS OTHERWISE SPECIFIED.
- 18. ALL SIDEWALKS SHALL HAVE A LIGHT BROOM FINISH. VERTICAL FACES SHALL BE FORMED.
- 19. BASE AND ASPHALT THICKNESS SPECIFIED ARE THE MINIMUM REQUIRED.
- 20. ALL CURB RADII ARE 4', UNLESS OTHERWISE NOTED. FOR CURBED ISLANDS SHOWN WITH ONE LABELED RADIUS, THE LABELED RADIUS SHALL APPLY TO ALL FOUR CORNERS OF THE ISLAND.
- 21. ALL CONCRETE FOR CURBS SHALL BE AIR ENTRAINED TO BE 6% (+/-1\%), MADE WITH SAND AND GRAVEL AGGREGATE AND SHALL CONFORM TO A TWENTY EIGHT (28) DAY STRENGTH OF 4,500 PSI MINIMUM, SHALL HAVE A MAXIMUM W/C OF 0.40 AND 130 LBS/LF.
- 22. CONTRACTOR SHALL INSTALL ALL CURBING IN A TRUE LINE AND PROPER GRADE IN ACCORDANCE WITH THE APPROVED SITE PLANS AND APPROPRIATE STATE DOT SPECIFICATIONS. CURVED CURB SECTIONS SHALL BE USED FOR RADII LESS THAN 30'. ALL CURBING SHALL BE BACKFILLED WITH CLEAN AGGREGATE.
- 23. CONTRACTOR SHALL REPAIR ANY CURB DAMAGED DURING CONSTRUCTION ACTIVITIES.
- 24. ALL CURBS SHALL BE FULL DEPTH CONCRETE CURB WITH 6" REVEAL, UNLESS OTHERWISE NOTED.
- 25. BUILDING FOOTPRINTS ARE SHOWN FOR INTENT ONLY. SEE STRUCTURAL AND ARCHITECTURAL PLANS FOR BUILDING FOUNDATION AND WALL DIMENSIONS.
- 26. CONTRACTOR TO COORDINATE TRANSFORMER AND GENERATOR PAD DIMENSIONS AND SPECIFICATIONS WITH MEP PLANS AND ELECTRIC PROVIDER PRIOR TO CONSTRUCTION.
- 27. SEE ARCHITECTURAL PLANS FOR FROST SLAB DETAILS AND SPECIFICATIONS.
- 28. CONTRACTOR TO INSTALL ALL UTILITY PIPING, SEWERS, CONDUIT PRIOR TO PAVING OPERATIONS. CONTRACTOR TO COORDINATE ALL SITE UTILITIES WITH UTILITY PLAN, AND MEP PLANS.

#### MSG GENERAL GRADING & DRAINAGE NOTES:

- 1. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE IN FINAL LANDSCAPING.
- 2. MANHOLE RIMS AND CATCH BASIN GRATES SHALL BE SET TO ELEVATIONS SHOWN. SET ALL EXISTING MANHOLE FRAMES AND COVERS, CATCH BASIN GRATES, VALVE BOXES, ETC., TO BE RAISED OR LOWERED, TO PROPOSED FINISHED GRADE, FLUSH WITH THE ADJACENT GRADE.
- 3. UNDERDRAINS MAY BE ADDED. IF DETERMINED NECESSARY BY THE ENGINEER OR CONSTRUCTION MANAGER, AFTER SUBGRADE IS ROUGH GRADED.
- 4. THE CONTRACTOR SHALL PRESERVE EXISTING VEGETATION WHERE POSSIBLE AND/OR AS NOTED ON DRAWINGS. REFER TO EROSION CONTROL PLAN FOR LIMIT OF DISTURBANCE AND NOTES.
- 5. THE CONTRACTOR SHALL COMPACT FILL IN 8" MAXIMUM LIFTS UNDER ALL PARKING, BUILDING, AND DRIVE AREAS TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR TEST), OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- 6. THE CONTRACTOR SHALL BE ADVISED THAT ALL EXCAVATION IS CONSIDERED UNCLASSIFIED AND THAT IT SHALL BE RESPONSIBLE FOR ALL MEANS. METHODS. AND MATERIALS OF CONSTRUCTION TO COMPLETE CONSTRUCTION AS DESIGNED. ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE OFF-SITE DISPOSAL OF ANY AND ALL EXCESS OR UNSUITABLE MATERIAL UNABLE TO BE PLACED ON SITE AND THE IMPORTATION OF ANY BORROW MATERIAL NECESSARY TO COMPLETE THE JOB.
- 7. CLEAN HARD FILL MATERIAL SHALL MEET THE REQUIREMENTS OF OAC 3745-4000-05 AND ALL REQUIREMENTS OF THE OHIO EPA. ANY PERSON USING CLEAN HARD FILL ON A SITE OTHER THAN THE SITE OF GENERATION MUST PROVIDE A WRITTEN NOTICE OF INTENT TO FILL TO THE LICENSING AUTHORITY(IES) WHERE THE CLEAN HARD FILL IS TO BE PLACED AT LEAST SEVEN DAYS PRIOR TO PLACING.
- 8. SITE GRADING SHALL BE PERFORMED TO PROVIDE POSITIVE DRAINAGE TO CATCH BASINS AND TO PRECLUDE THE PONDING OF WATER ON SITE.
- 9. VERIFY REQUIRED SPOT ELEVATIONS/GRADING IN THE VICINITY OF THE BUILDINGS WITH THE ARCHITECTURAL PLANS.
- 10. SPOT ELEVATIONS SHOWN DEPICT THE PROPOSED PAVEMENT OR GROUND SURFACE OR PAVEMENT ELEVATION AT FACE OF CURB, UNLESS OTHERWISE NOTED. TOP OF ALL CONCRETE CURBING IS 6-INCHES ABOVE SPOT ELEVATIONS NOTED.
- 11. IT IS THE CONTRACTORS OBLIGATION AND RESPONSIBILITY TO CONFIRM/CONCUR WITH THE EXISTING GRADES SHOWN HEREIN. THE CONTRACTOR MUST CONFIRM ALL EXISTING GRADES PRIOR TO ANY/ALL EXCAVATION.
- 12. THE CONTRACTOR MUST DOCUMENT EXISTING GRADE DISPUTES BY PROVISION OF A TOPOGRAPHIC SURVEY BY A STATE OF OHIO REGISTERED PROFESSIONAL SURVEYOR, PRIOR TO ANY EARTH DISTURBING ACTIVITIES. IN THE ABSENCE OF THE PROVISION OF TOPOGRAPHIC SURVEY BY THE CONTRACTOR, THE GRADES SHOWN HEREON WILL BE THE "TOPOGRAPHY OF RECORD" FOR ANY AND ALL SOIL VOLUME DISPUTES.

- 13. THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL IMPORT/EXPORT NECESSARY TO ACHIEVE THE PROPOSED GRADES.
- 14. ALL PROPOSED SLOPES 3:1 OR STEEPER AND ALL EARTHEN DRAINAGE WAYS SHALL RECEIVE JUTE OR EXCELSIOR MATTING AS PER ODOT 671 TYPE F.
- 15. ALL EXCAVATION UNDER OR NEAR EXISTING OR FUTURE PAVEMENT (INCLUDING SIDEWALKS), SUBJECT TO SETTLEMENT, WILL BE BACK FILLED WITH PREMIUM BACKFILL AS DEFINED HEREIN. AT QUESTIONABLE AREAS THE DECISION OF THE OF THE ENGINEER, OR HIS REPRESENTATIVE, WILL PREVAIL.
- 16. PAVEMENT EXCAVATION AND EMBANKMENT SHALL BE IN ACCORDANCE WITH ITEM 203.12 OF OHIO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. THE CONTRACTOR MAY BE REQUIRED TO MAKE COMPACTION TESTS. TESTS SHALL BE TAKEN BY A TESTING COMPANY APPROVED BY THE ENGINEER. THE COST OF THESE TESTS SHALL BE PAID BY THE CONTRACTOR. "PROOF" ROLLING WILL BE REQUIRED PRIOR TO PAVING AND SHALL BE CONDUCTED PRIOR TO PLACEMENT OF AGGREGATE BASE AND PERFORMED WITH THE OWNER'S INSPECTOR PRESENT AND PAID FOR BY THE CONTRACTOR.

#### MSG GENERAL UTILITY NOTES:

- 1. PROPER COORDINATION WITH THE RESPECTIVE UTILITY COMPANIES SHALL BE PERFORMED BY THE CONTRACTOR TO INSURE THAT ALL UTILITY COMPANY, LOCAL MUNICIPALITY, AND LOCAL COUNTY STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET.
- 2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES, INCLUDING SERVICES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT OHIO UTILITY PROTECTION SERVICE AT 1-800-362-5191 AT LEAST 72 HOURS BEFORE START OF WORK AND VERIFY ALL EXISTING UTILITY LOCATIONS.
- 3. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE SEWERS CROSS EXISTING UTILITIES, AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION MANAGER IN THE EVENT OF ANY UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED UTILITIES SO THAT AN APPROPRIATE MODIFICATION MAY BE MADE.
- 4. THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES FOR SERVICE INSTALLATIONS AND CONNECTIONS AND MAIN AND SERVICE RELOCATIONS. THE CONTRACTOR SHALL COORDINATE THE WORK TO BE PERFORMED BY THE VARIOUS UTILITY COMPANIES AND SHALL SECURE ALL PERMITS AND PAY ALL FEES FOR CONNECTIONS, DISCONNECTIONS, RELOCATIONS, INSPECTIONS, AND DEMOLITION, AS NECESSARY.
- 5. RELOCATION OF ANY UTILITY COMPANY FACILITIES TO BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANY AND LOCAL MUNICIPALITY.
- 6. ALL WATER MAINS, WATER SERVICES AND SANITARY SEWER LATERALS SHALL CONFORM TO THE OHIO ENVIRONMENTAL PROTECTION AGENCY, APPLICABLE COUNTY AND LOCAL DEPARTMENTS, AND APPROPRIATE UTILITY COMPANY SPECIFICATIONS.
- 7. THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS TO EXISTING BUILDINGS, ETC. WITHOUT INTERRUPTION UNLESS/UNTIL AUTHORIZED TO DISCONNECT BY THE OWNER, UTILITY COMPANIES, AND GOVERNING AUTHORITIES. THE CONTRACTOR SHALL INSTALL AS NECESSARY, TEMPORARY SITE LIGHTING. GAS, SANITARY, WATER, STORM, ELECTRIC, TELEPHONE, AND CABLE SERVICES TO SERVICE BUILDING(S) TO REMAIN OPEN.
- 8. ALL EXISTING PAVEMENT WHERE UTILITY PIPING IS TO BE INSTALLED SHALL BE REQUIREMENTS OF LOCAL MUNICIPALITY AND THE DETAILS CONTAINED HEREIN.
- 9. ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.
- 10. SANITARY LATERAL AND STORM SEWERS SHALL MAINTAIN 10-FOOT MIN. HORIZONTAL AND 1.5-FOOT MIN. VERTICAL SEPARATION DISTANCE FROM WATER LINES. A 1-FOOT MIN. CLEARANCE SHALL BE MAINTAINED BETWEEN WATER LINES AND OTHER UTILITIES INCLUDING GAS, ELECTRICAL AND TELEPHONE. ADDITIONAL PROTECTION MEASURES INCLUDING, BUT NOT LIMITED TO, CONCRETE PIPE ENCASEMENT MAY BE REQUIRED IF INDICATED CLEARANCES ARE NOT MET.
- 11. THE CONTRACTOR SHALL COMPACT PIPE BACKFILL IN MAX, 8" LOOSE LIFTS TO 95% OF THE MAXIMUM DRY DENSITY PER ASTM D1557, ACCORDING TO THE PIPE BEDDING DETAILS. TRENCH BOTTOM SHALL BE STABLE IN HIGH GROUNDWATER AREAS. A PIPE FOUNDATION SHALL BE USED IN AREAS OF ROCK EXCAVATION.
- 12. CONTRACTOR TO PROVIDE SLEEVES UNDER FOOTINGS OR THROUGH FOUNDATIONS FOR UTILITY CONNECTIONS.
- 13. CONTRACTOR SHALL PROVIDE ALL BENDS, FITTINGS, ADAPTERS, ETC. AS REQUIRED FOR PIPE CONNECTIONS TO BUILDING/CANOPY STUB-OUTS, INCLUDING ROOF/FOOTING DRAIN CONNECTIONS TO ROOF LEADERS AND TO STORM DRAINAGE SYSTEM.
- 14. UTILITY CONDUIT PIPE SHALL BE SCHEDULE 80 PVC AND/OR AS REQUIRED BY THE LOCAL UTILITY COMPANY. SERVICES MAY BE INSTALLED IN A COMMON TRENCH WITH 12" CLEAR SPACE BETWEEN SERVICES. MINIMUM COVER SHALL BE 36" ON ELECTRIC CONDUITS AND 24" ON TELEPHONE AND CABLE CONDUITS. SERVICES SHALL BE MARKED WITH MAGNETIC LOCATOR TAPE. GALVANIZED STEEL ELECTRICAL CONDUIT SHALL BE USED AT POLE AND TRANSFORMER LOCATIONS. INSTALL HAND HOLES AS REQUIRED.
- 15. ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION PRIOR TO APPROVAL FOR BACKFILL, IN ACCORDANCE WITH THE APPROPRIATE UTILITY COMPANY, LOCAL MUNICIPALITY, AND/OR LOCAL COUNTY REQUIREMENTS.
- 16. MANHOLE RIMS AND CATCH BASIN GRATES SHALL BE SET TO ELEVATIONS SHOWN. SET ALL EXISTING MANHOLE FRAMES AND COVERS, CATCH BASIN GRATES, VALVE BOXES, ETC., TO BE RAISED OR LOWERED, TO PROPOSED FINISHED GRADE, FLUSH WITH THE ADJACENT GRADE.
- 17. THE CONTRACTOR SHALL RESTORE ANY STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS, ETC. DISTURBED DURING CONSTRUCTION TO THE ORIGINAL CONDITION OR BETTER.

- 18. THE CONTRACTOR MAY SUBSTITUTE MASONRY STRUCTURES FOR PRECAST STRUCTURES IF APPROVED BY THE CONSTRUCTION MANAGER AND IF ALLOWED BY THE CITY AND/OR COUNTY ENGINEERS.
- 19. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF MATERIALS AND STRUCTURES TO THE CONSTRUCTION MANAGER AND LOCAL GOVERNING AGENCIES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- 20. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF WATER MAINS & SERVICES TO A POINT 5' OUTSIDE OF EACH BUILDING. THE INDIVIDUAL BUILDING CONTRACTORS SHALL BE RESPONSIBLE FOR ALL CONNECTIONS TO INTERIOR PLUMBING.
- 21. IN THE EVENT OF CONFLICT OF ANY REQUIREMENTS OR PROVISIONS OF THE WORK INDICATED HEREON, THE SITE ENGINEER SHALL BE NOTIFIED FOR A DETERMINATION OF THE PLAN REQUIREMENTS AND INTENT THEREOF.
- 22. REFERENCE SITE ELECTRICAL PLAN FOR LOCATION OF ELECTRIC CONDUIT FOR ALL SITE ELECTRICAL WORK.
- 23. CONTRACTOR TO SEE MEP SITE PLAN FOR ALL ELECTRICAL AND COMMUNICATION CONDUIT RUNS PRIOR TO START OF CONSTRUCTION.
- 24. ALL UTILITIES SHALL BE CONSTRUCTED, INSPECTED, AND TESTED IN ACCORDANCE WITH CITY STANDARDS AND REGULATIONS. THE CITY ENGINEERING DEPARTMENT SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE FOR SCHEDULING OF AN INSPECTOR.
- 25. PROPOSED ELEVATIONS SHOWN SHALL NOT BE CHANGED WITHOUT APPROVAL OF THE CITY ENGINEERING DEPARTMENT AND THE CONSTRUCTION MANAGER.
- 26. THE LOCATION, SIZE, AND DEPTH OF THE EXISTING SANITARY LATERAL OR MAIN SHALL BE VERIFIED IN THE FIELD IN THE PRESENCE OF THE CITY INSPECTOR. THE SLOPE OF THE LATERAL TO THE BUILDING WILL THEN BE DETERMINED. THE CITY MUST APPROVE THE TYPE AND LOCATION OF ANY CONNECTION PRIOR TO INSTALLATION. THE EXISTING SANITARY LATERAL SHALL BE TELEVISED PRIOR TO INSTALLATION OF ANY SANITARY SEWER SYSTEM COMPONENTS. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IS THE EXISTING LATERAL IS NOT FOUND TO BE IN GOOD CONDITION.
- 27. ALL BACK FLOW PREVENTION DEVICES SHALL BE APPROVED BY THE CITY'S UTILITY DEPARTMENT.
- 28. ALL FIRE SERVICE MAINS SHALL BE INSTALLED BY AN INDIVIDUAL WITH APPROPRIATE CERTIFICATION BY THE STATE OF OHIO.
- 29. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
- 30. IN THOSE AREAS WHERE IT IS REQUIRED TO LOWER THE WATER LINE TO CLEAR AN OBSTACLE AND THE DEFLECTION WILL BE GREATER THAN 18", THE USE OF BENDS WILL BE REQUIRED TO CLEAR THE OBSTACLE AND BRING THE WATER MAIN UP TO THE STANDARD FIVE (5) FEET OF COVER.
- 31. TRAFFIC SHALL BE MAINTAINED ON ALL ADJOINING STREETS AT ALL TIMES. TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD).
- 32. CONTRACTOR TO INSTALL SHORING AND/OR TEMPORARY STRUCTURES TO PROVIDE SUPPORT TO ANY AND ALL EXISTING AFFECTED UTILITIES PER UTILITY PROVIDER'S MINIMUM STANDARDS.
- 33. CONTRACTOR TO COORDINATE ALL UTILITY CONNECTIONS, ELECTRICAL AND TELECOMMUNICATIONS CONDUIT, AND GAS LINES WITH M.E.P. PLANS PRIOR TO START OF CONSTRUCTION.

#### MSG STORM UTILITY NOTES:

- 1. CURB INLETS ARE TO BE ALIGNED WITH FACE OF CURBS.
- 2. NORTHINGS AND EASTINGS FOR STORM STRUCTURES GIVEN IN SITE PLANS ARE UNDERSTOOD TO REPRESENT THE CENTER OF THE INLET STRUCTURE.
- 3. ALL CATCH BASINS/MANHOLES, UNLESS STATED OTHERWISE IN STRUCTURE SCHEDULE SHALL BE AS FOLLOWS OR APPROVED EQUAL:
- 3.1. <u>CURB INLETS:</u> EAST JORDAN IRON WORKS 7045 WITH TYPE M1 SINUSOIDAL GRATE AND 7050 T1 BACK. ALL CATCH BASINS SHOWN ADJACENT TO CURBS
- ARE TO BE CURB INLETS. 3.2. <u>CATCH BASINS IN CONCRETE PAVEMENT:</u> EAST JORDAN IRON WORKS 5110 WITH TYPE M3 HEAVY DUTY SINUSOIDAL GRATE.
- CATCH BASINS IN ASPHALT PAVEMENT: EAST JORDAN IRON WORKS 5100 WITH TYPE M1 5105 GRATE.
- 3.4. <u>CATCH BASINS IN GRASS:</u> EAST JORDAN IRON WORKS 6500 BEEHIVE DITCH 3.5. SANITARY SEWER MANHOLE: EAST JORDAN IRON WORKS 1040 HEAVY DUTY CASTING AND COVER WITH TYPE A SOLID COVER WITH "SANITARY SEWER" ON
- 4. ALL STORM SEWER PIPES SHALL BE HDPE OR PVC UNLESS STATED OTHERWISE ON THE PLANS.
- 4.1. HIGH DENSITY POLYETHYLENE (HDPE) STORM SEWER PIPE SHALL HAVE A SMOOTH INTERIOR AND CORRUGATED EXTERIOR AND MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS: AASHTO M252, TYPE S FOR 4-INCH THROUGH 10-INCH PIPE, AASHTO M294, TYPE S FOR 12-INCH THROUGH 36-INCH PIPE, ASTM F2306 FOR 12-INCH THROUGH 60-INCH PIPE, OR ASTM F2648 FOR 4-INCH THROUGH 60" PIPE. JOINTS SHALL BE SILT-TIGHT BELL AND SPIGOT CONNECTIONS. HDPE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL, ASTM D2321 AND MANUFACTURERS RECOMMENDED PROCEDURE.
- 4.2. POLY VINYL CHLORIDE (PVC) PIPE FOR STORM SHALL HAVE BUILT—IN RUBBER GASKET JOINTS. PVC PIPE SHALL CONFORM TO ASTM D3034 SDR35 WITH COMPRESSION JOINTS AND APPROPRIATE FITTINGS. PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL, ASTM D2321 AND MANUFACTURERS RECOMMENDED PROCEDURE.

- 4.3. RE-INFORCED CONCRETE PIPE (RCP) SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-76; ALL RCP SHALL BE CLASS IV UNLESS OTHERWISE SHOWN. JOINTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-443.
- 5. ALL STORM SEWERS, INLET BASINS AND MANHOLES SHALL BE CLEANED PRIOR TO ACCEPTANCE.

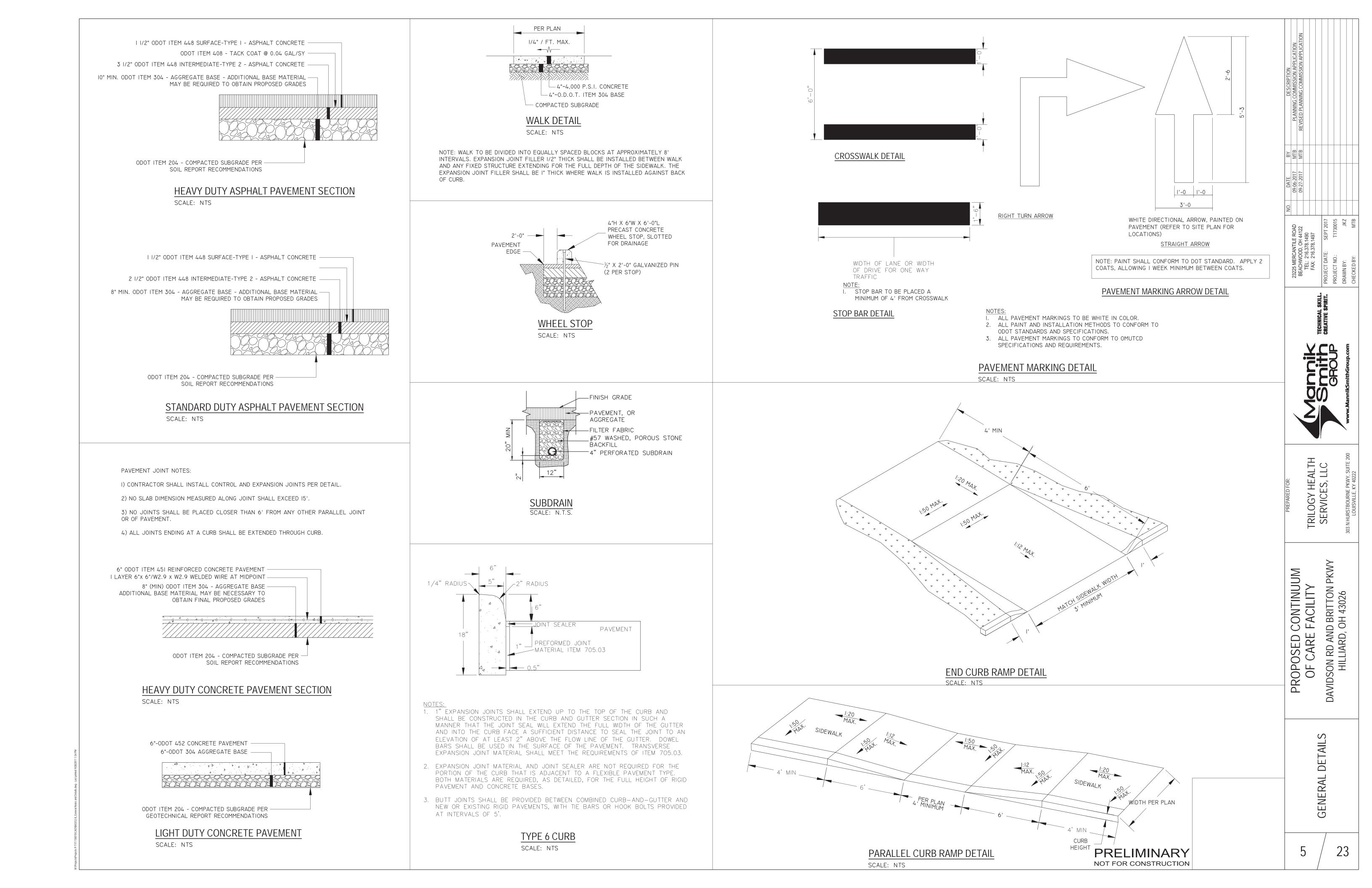
#### MSG SANITARY UTILITY NOTES:

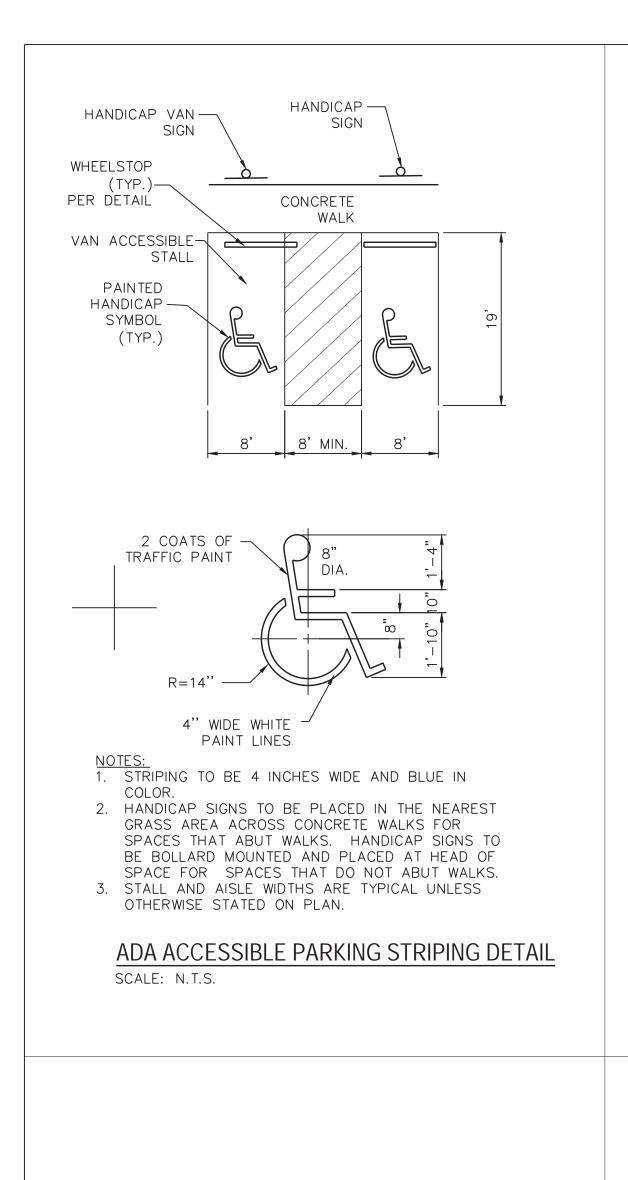
- 1. SANITARY LATERAL SHALL BE A MINIMUM 6" DIAMETER OF PVC PIPE, ASTM D3034 SDR 26 WITH RUBBER GASKET JOINTS OR APPROVED EQUAL. LATERALS SHALL BE CONSTRUCTED WITH A MINIMUM 1% SLOPE, AND HAVE A MINIMUM OF 3 FT. COVER. PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL, ASTM D2321 AND MANUFACTURERS RECOMMENDED PROCEDURE.
- 2. MANHOLE SECTION AND CONSTRUCTION SHALL CONFORM TO ASTM C-478.
- 3. TEST FLEXIBLE PIPING FOR DEFLECTION THAT PREVENTS PASSAGE OF BALL OR CYLINDER OF SIZE NOT LESS THAN 95 PERCENT OF PIPING DIAMETER. DEFLECTION OF 5% SHALL NOT BE EXCEEDED.
- 4. TEST SANITARY SEWERAGE ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. PERFORM AIR TESTS ON SANITARY SEWERAGE ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION IN ACCORDANCE WITH UNI-B-6. TEST PLASTIC GRAVITY SEWER PIPING ACCORDING TO ASTM F 1417 AND CONCRETE GRAVITY SEWER PIPING ACCORDING TO ASTM C-924.
- 5. PERFORM HYDRAULIC TEST IN MANHOLES ACCORDING TO ASTM C-969.

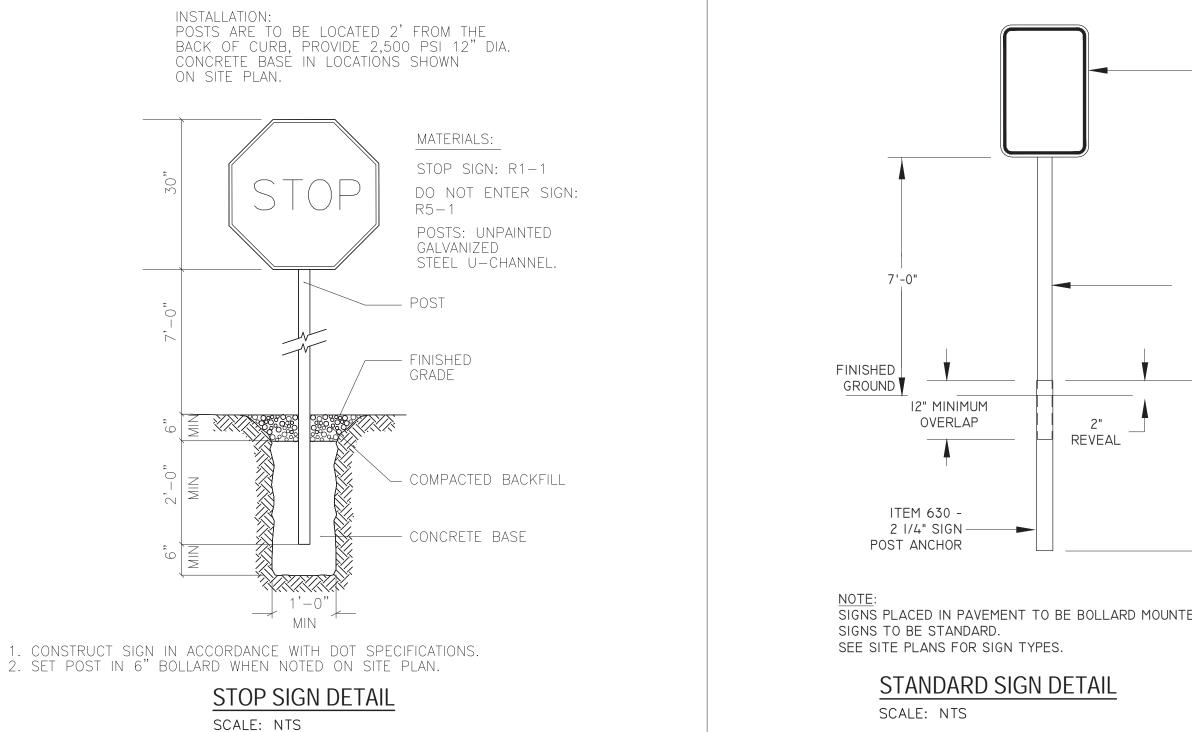
#### MSG WATER UTILITY NOTES:

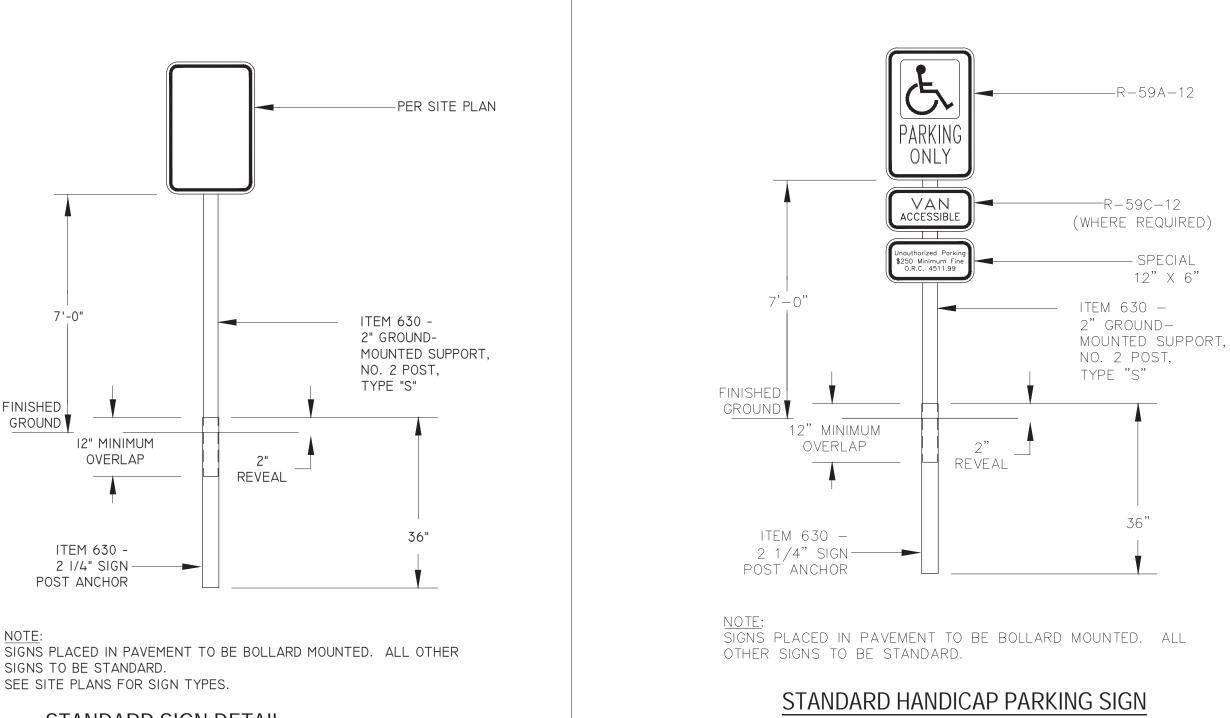
- 1. WATER MAIN SHALL BE MANUFACTURED AND TESTED IN ACCORDANCE WITH AWWA STANDARD C900 FOR POLYVINYL CHLORIDE (PVC) PRESSURE PIPE AND FABRICATED FITTINGS, 4-INCH, THROUGH 12-INCH, FOR WATER DISTRIBUTION, OR AWWA STANDARD C909 FOR MOLECULARLY ORIENTED POLYVINYL CHLORIDE (PVCO) PRESSURE PIPE, 4-INCH THROUGH 12-INCH, FOR WATER DISTRIBUTION AND CLEARLY MARKED AS SUCH. PVC WATER PIPE SHALL BE CERTIFIED TO NSF INTERNATIONAL STANDARD NO. 61.
- 2. WATER METER AND BACKFLOW PREVENTER TO BE INSTALLED WITHIN THE BUILDING. REFERENCE BUILDING PLANS FOR DETAIL.
- 3. MINIMUM DEPTH OF WATER MAIN COVER SHALL BE FIVE (5) FEET BELOW FINISH GRADE.

PRELIMINARY NOT FOR CONSTRUCTION

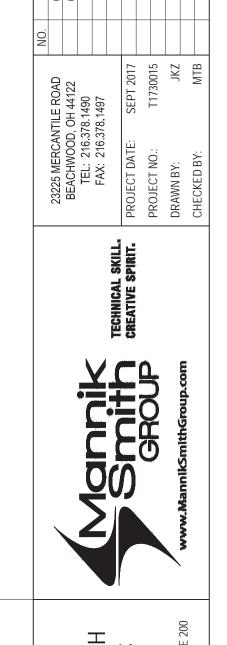


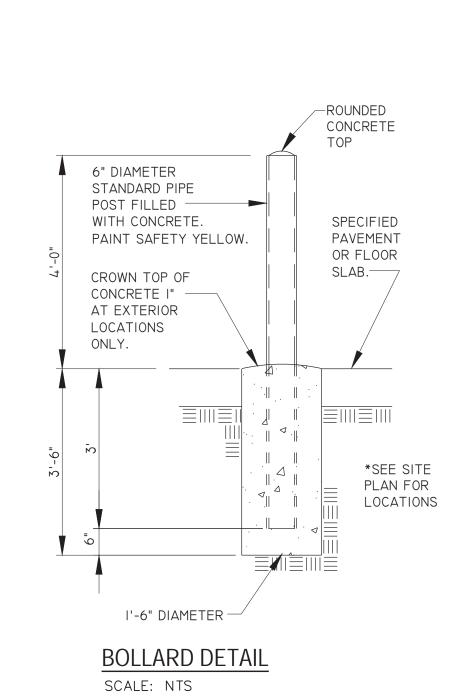


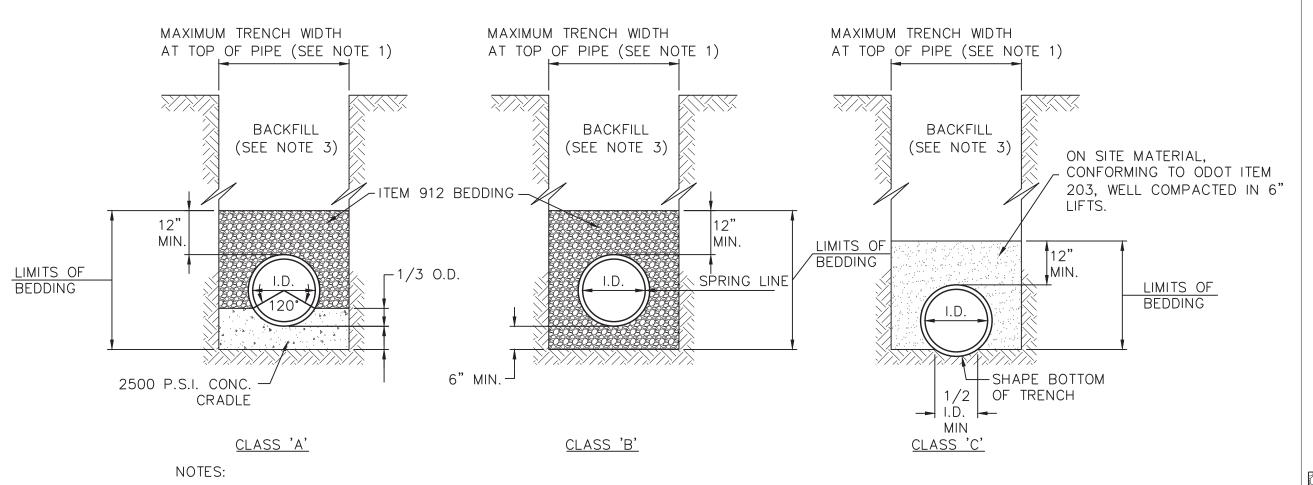




SCALE: NTS



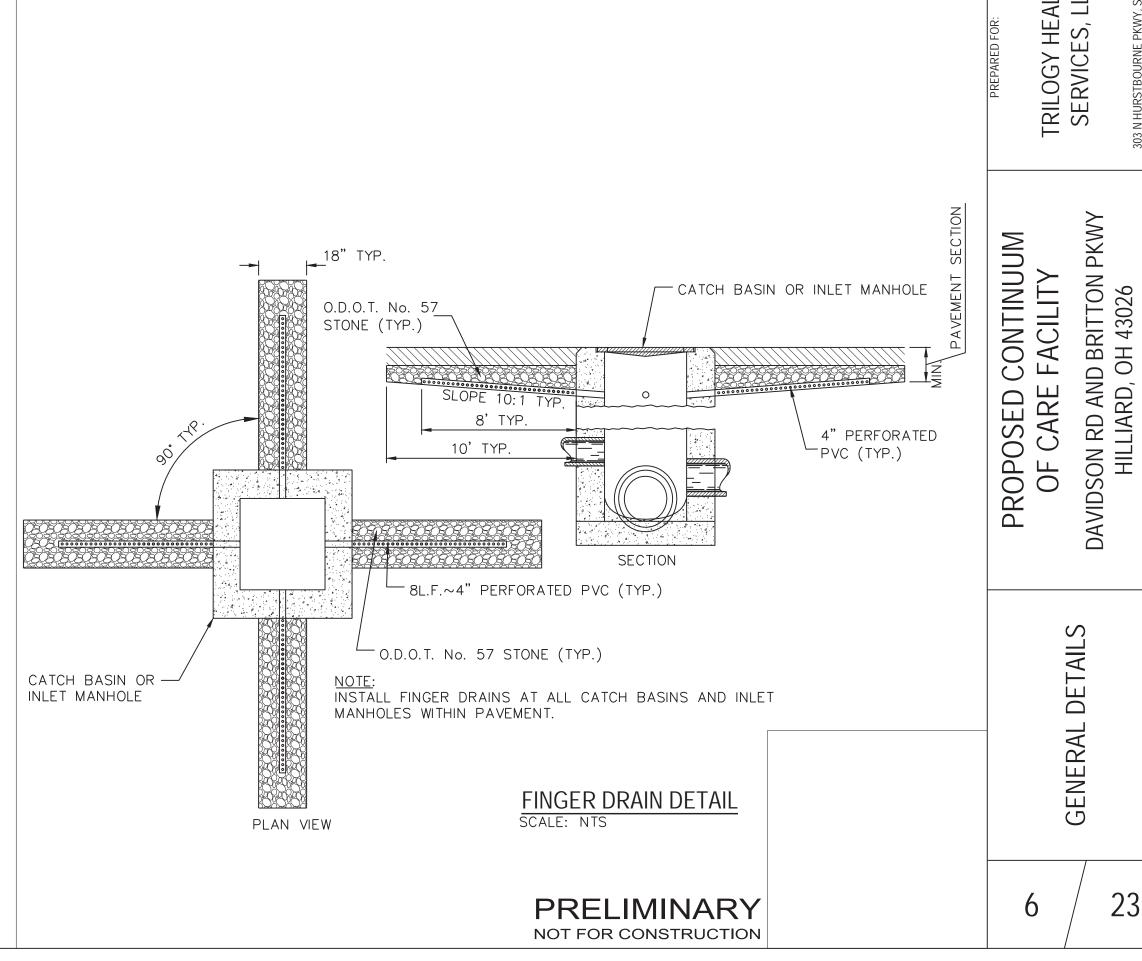


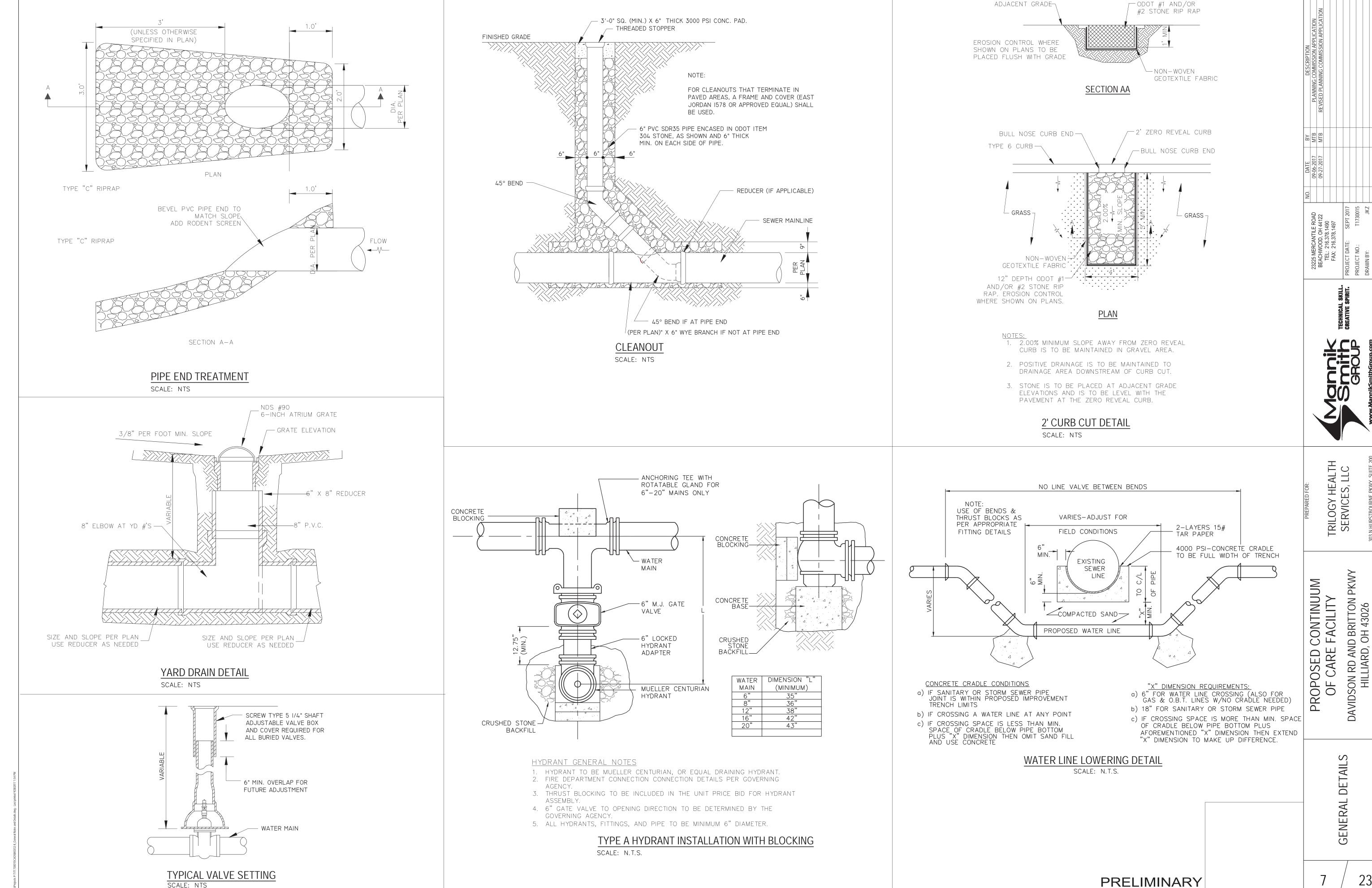


- 1. MAXIMUM TRENCH AT TOP OF PIPE SHALL BE O.D.+24" FOR ALL PIPES UP TO AND INCLUDING 24" I.D.; O.D.+30" FOR PIPE LARGER THAN 24" I.D. TO 54" I.D.; AND O.D.+48" FOR PIPE SIZES 60" AND OVER.
- 2. ALL TRENCH EXCAVATION SHALL CONFORM TO THE RULES AND REGULATIONS OF THE OHIO STATE INDUSTRIAL COMMISSION (OSIC) AND THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
- 3. ALL BACKFILL SHALL BE TAMPED WITH MACHINE MOUNTED TAMPING EQUIPMENT. NO FLOODING, JETTING OR PUDDLING OF BACKFILL WILL BE PERMITTED. BACKFILL SHALL BE COMPACTED TO 100% OF MAXIMUM LABORATORY DRY DENSITY PER ASTM D 698.
- 4. ALL BEDDING SHALL BE CLASS 'B' EXCEPT AS STATED IN NOTE 6 OR OTHERWISE NOTED ON THE PLANS. BEDDING LIMITS FOR R.C.P. AND D.I.P. SHALL BE TO THE PIPE SPRINGLINE.
- 5. SLAG BEDDING SHALL NOT BE USED.
- 6. BEDDING FOR DUCTILE IRON PIPE USED FOR WATERLINE OR FORCE MAIN SHALL BE CLASS 'C' EXCEPT WHEN INSTALLED IN ROCK AND UNDER PAVEMENT OR STRUCTURES, IN WHICH CASE, BEDDING SHALL BE CLASS 'B' OR AS NOTED ON THE PLANS.
- 7. INSTALL A MAGNETIC DETECTOR TAPE 12" ABOVE THE CENTERLINE OF NON-METALLIC WATERLINES OR SANITARY FORCE MAINS.

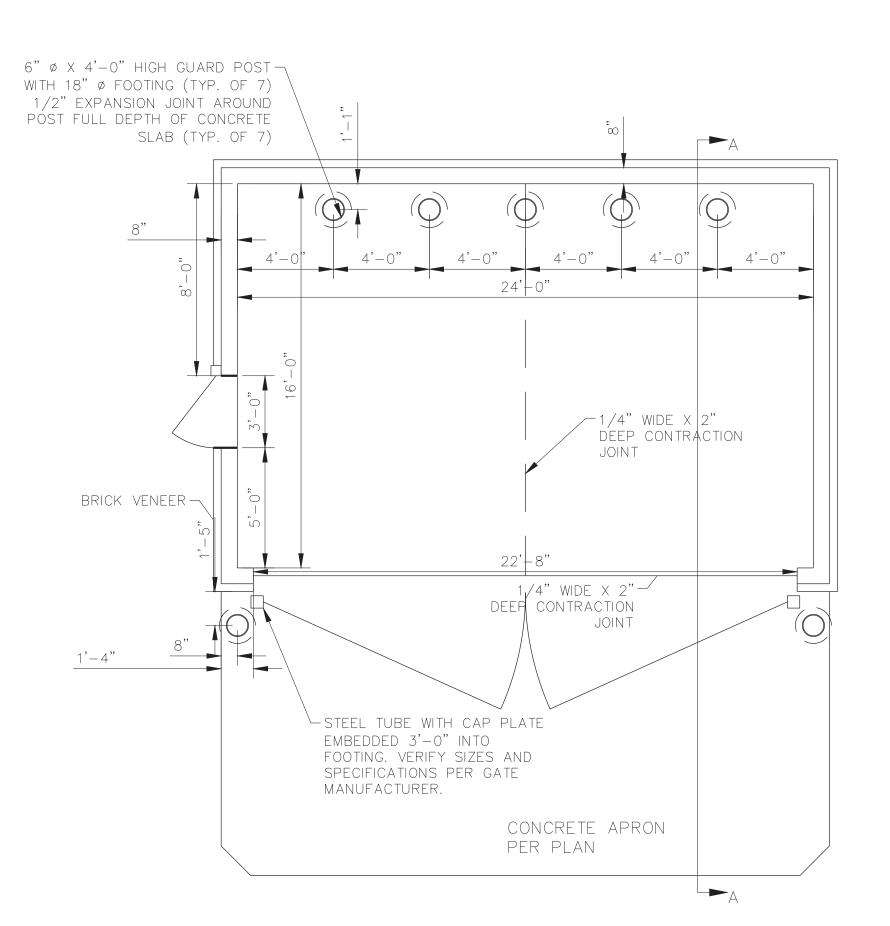
TRENCH & BEDDING DETAILS

SCALE: NTS

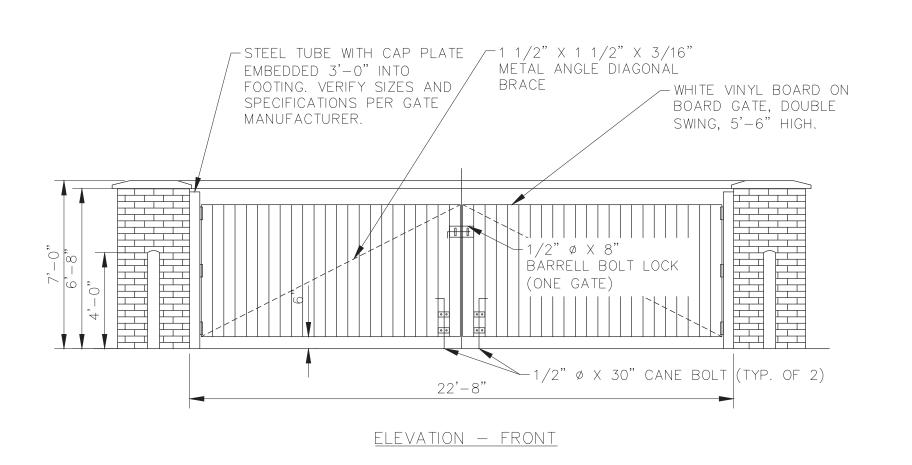


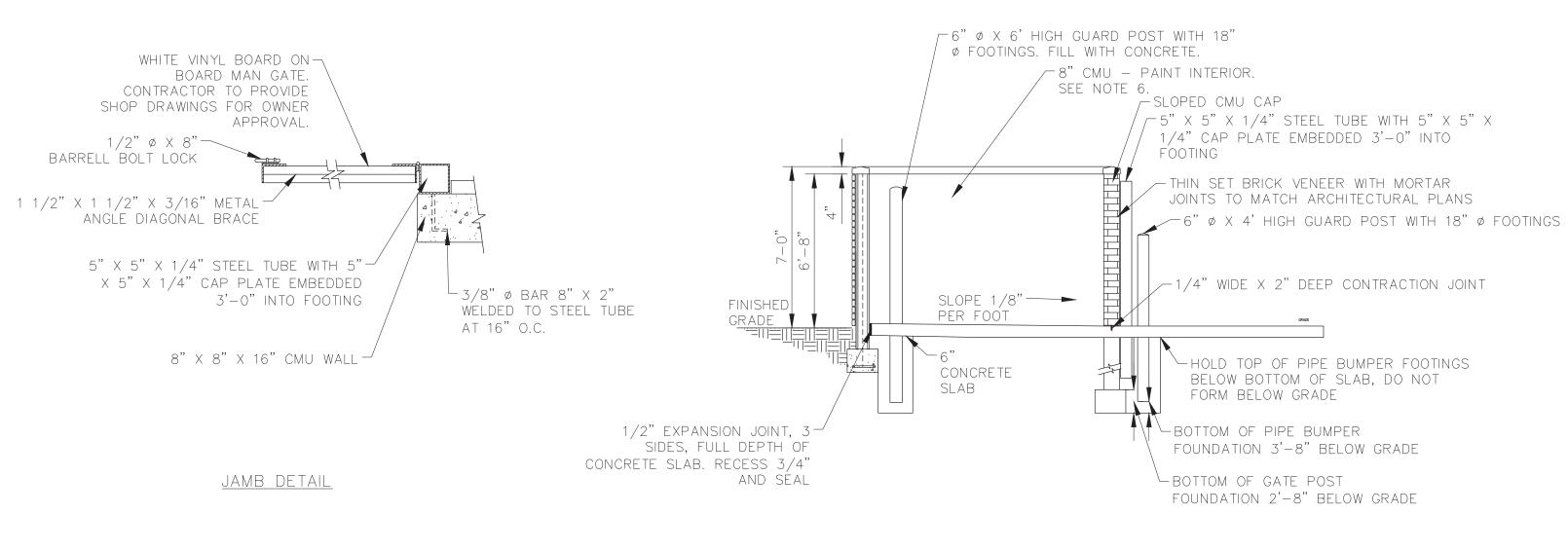


NOT FOR CONSTRUCTION

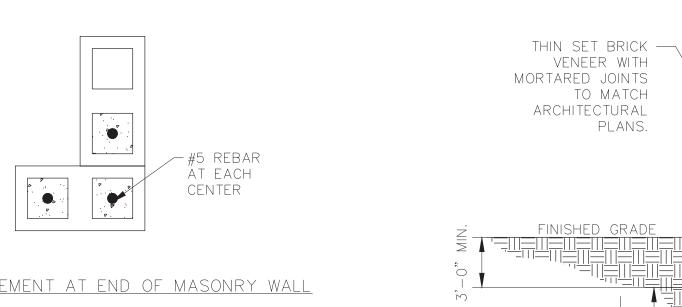


FOUNDATION PLAN

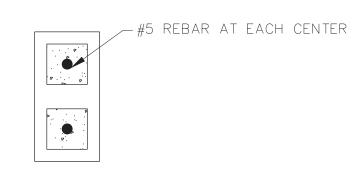




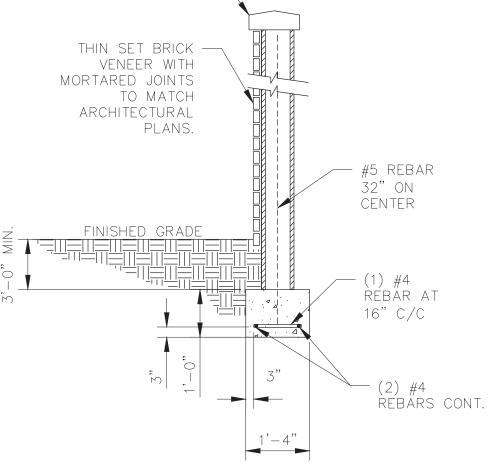
SECTION A-A'



REINFORCEMENT AT END OF MASONRY WALL



REINFORCEMENT AT JAMB



WALL CROSS SECTION

12" X 4" X 16" —

SLOPED CMU CAP

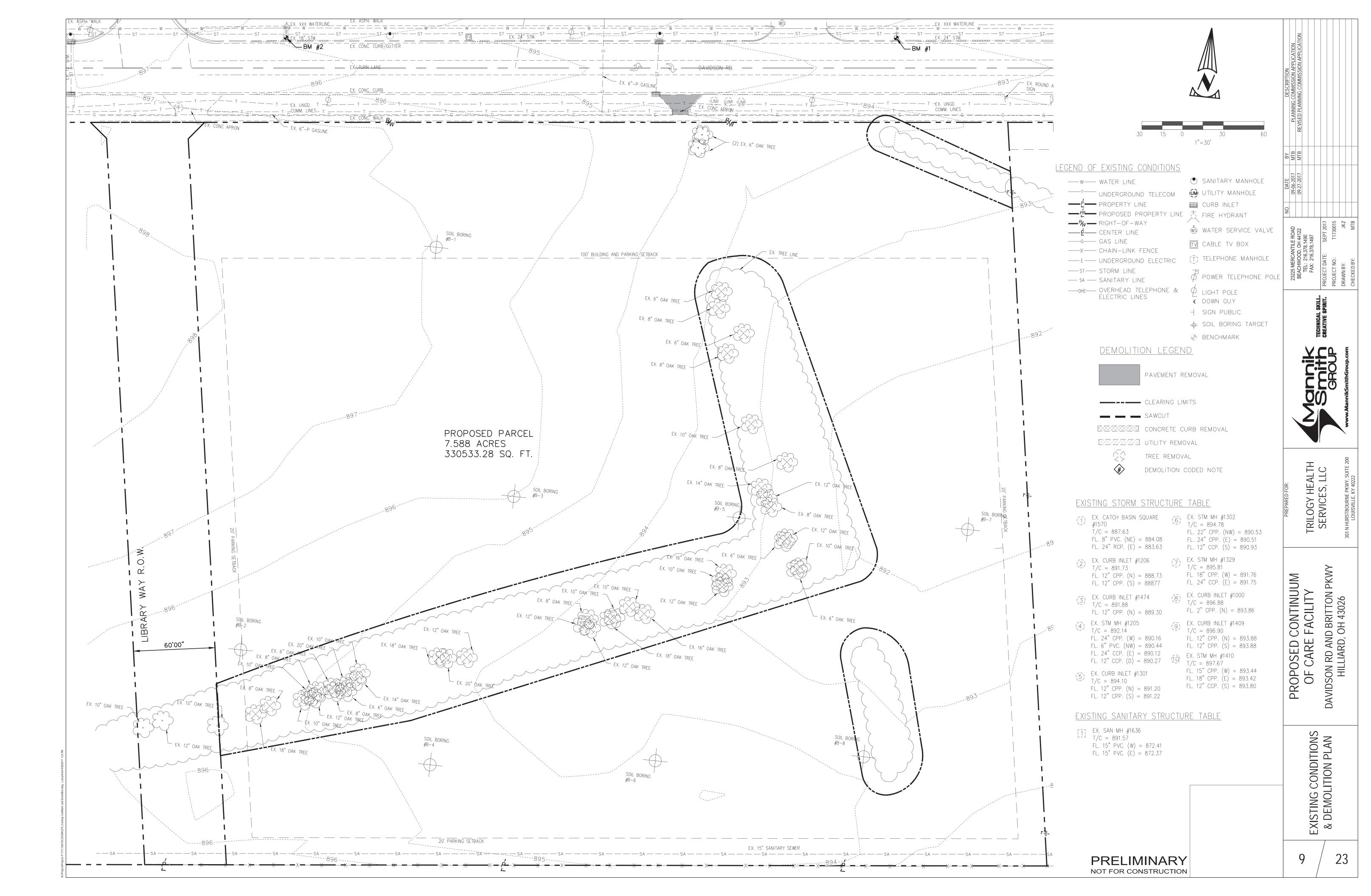
#### GENERAL NOTES:

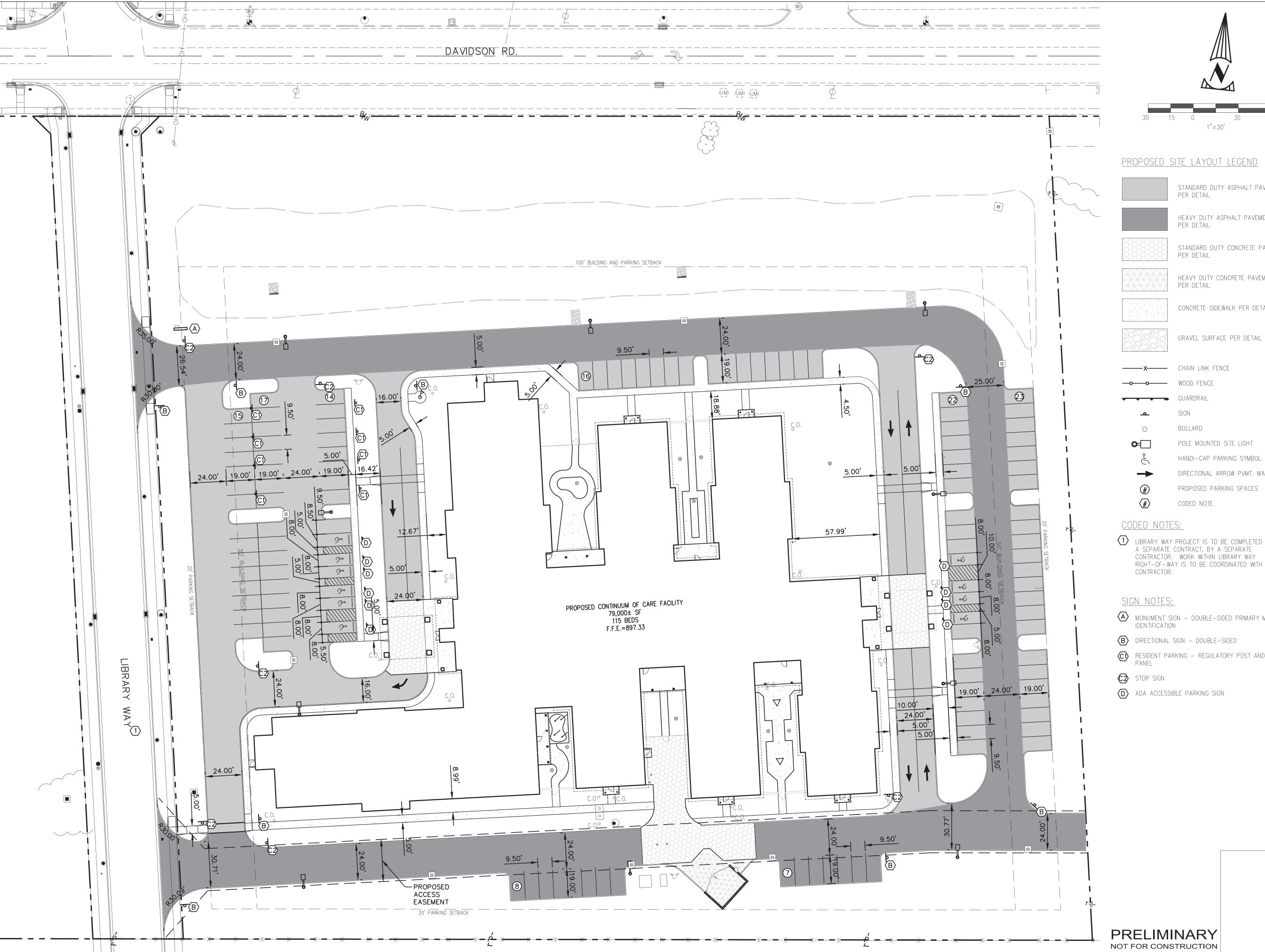
- 1. LADDER TYPE REINFORCEMENT TO BE PLACED BETWEEN THE FIRST TWO COURSES ABOVE THE FOOTING, EVERY OTHER COURSE THEREAFTER, AND BETWEEN THE LAST TWO COURSES AT THE TOP OF THE MASONRY. REINFORCEMENT SHALL NOT BE CONTINUOUS THROUGH CONTROL JOINTS.
- 2. GROUT ALL CMU CELLS BELOW GRADE. GROUT ONLY CELLS WITH REBAR ABOVE GRADE.
- 3. BRICK VENEER AND MORTARED JOINT PATTERN TO MATCH ARCHITECTURAL PLANS OF PROPOSED BUILDING.
- 4. REFER TO GRADING PLAN FOR PAVEMENT ELEVATIONS.
- 5. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF GATES TO PROJECT ENGINEER AND OWNER PRIOR TO ORDERING.
- 6. TREAT DUMPSTER ENCLOSURE INTERIOR WITH SHERWIN WILLIAMS PREP RITE LATEX BLOCK FILLER OR APPROVED EQUAL. PAINT WITH SHERWIN WILLIAMS EXTERIOR SUPER PAINT IN SATIN FINISH, COLOR SWT599 BRICK PAVER, OR APPROVED EQUAL. CONTRACTOR TO PROVIDE PAINT SAMPLE TO OWNER PRIOR TO ORDERING.
- 7. BOLLARDS TO BE PAINTED WITH SHERWIN WILLIAMS SAFETY YELLOW STEEL PAINT OR APPROVED EQUAL.

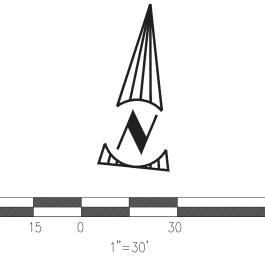
DUMPSTER ENCLOSURE DETAIL NOT TO SCALE

> **PRELIMINARY** NOT FOR CONSTRUCTION

GENERAL











STANDARD DUTY CONCRETE PAVEMENT

HEAVY DUTY CONCRETE PAVEMENT



HANDI-CAP PARKING SYMBOL

PROPOSED PARKING SPACES

LIBRARY WAY PROJECT IS TO BE COMPLETED UNDER A SEPARATE CONTRACT, BY A SEPARATE CONTRACTOR. WORK WITHIN LIBRARY WAY RIGHT-OF-WAY IS TO BE COORDINATED WITH THAT CONTRACTOR.

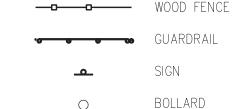
MONUMENT SIGN - DOUBLE-SIDED PRIMARY MAIN IDENTIFICATION

RESIDENT PARKING - REGULATORY POST AND PANEL

PROPOSED SITE LAYOUT LEGEND



CONCRETE SIDEWALK PER DETAIL



POLE MOUNTED SITE LIGHT

DIRECTIONAL ARROW PVMT. MARKING

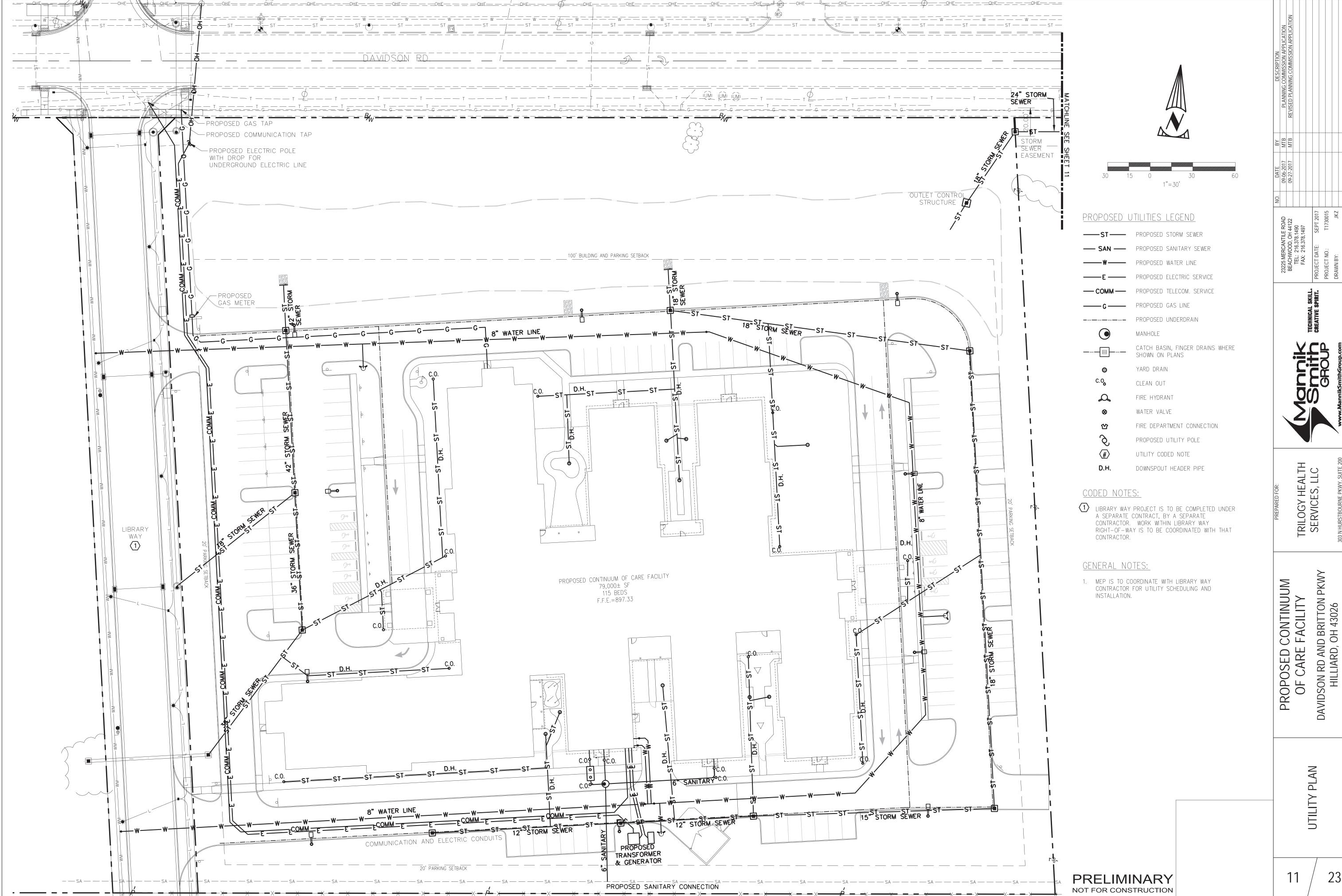
CODED NOTE

DAVIDSON RD AND BRITTON PKWY HILLIARD, OH 43026 PROPOSED CONTINUUM OF CARE FACILITY

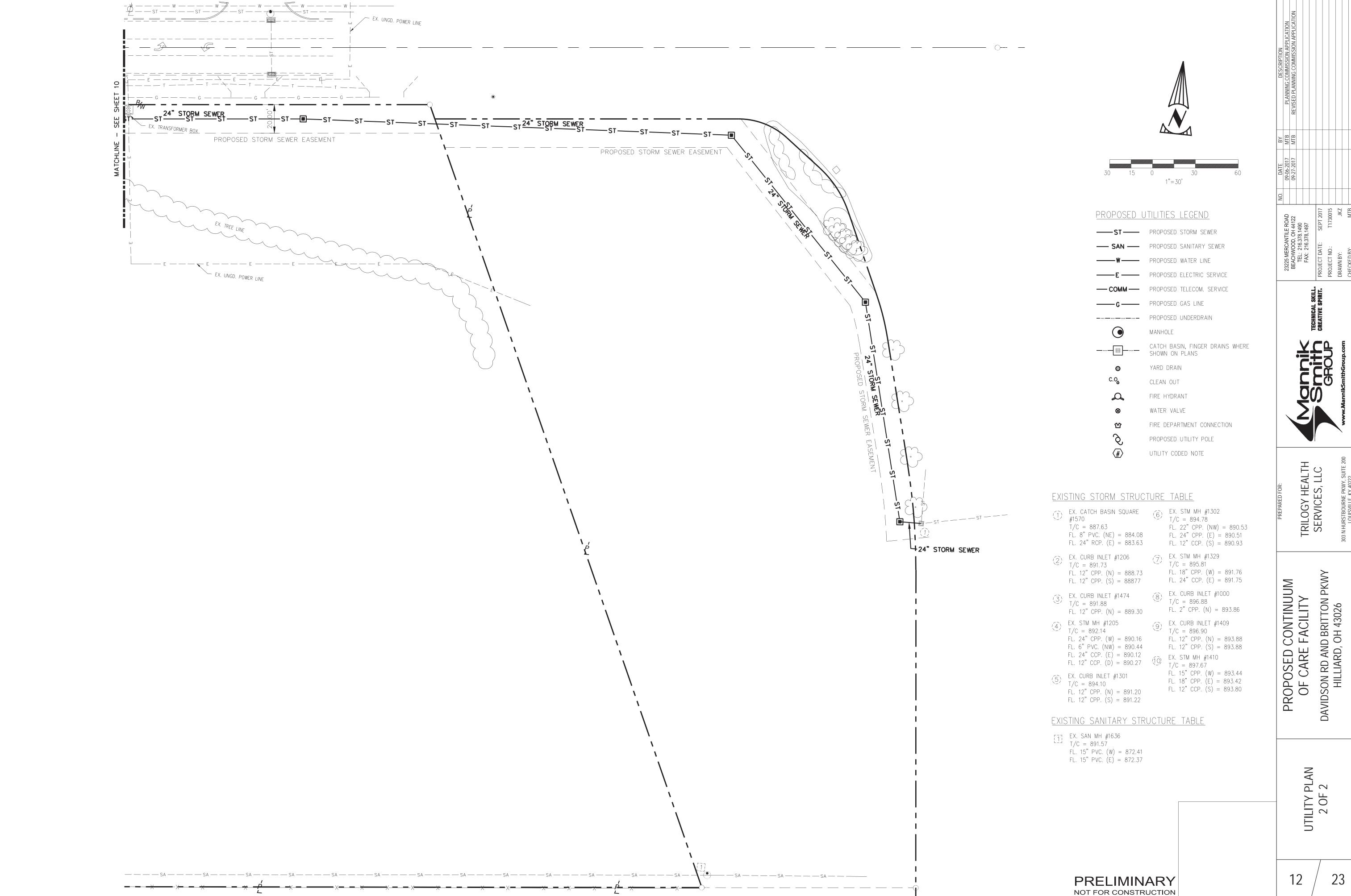
TRILO( SERV

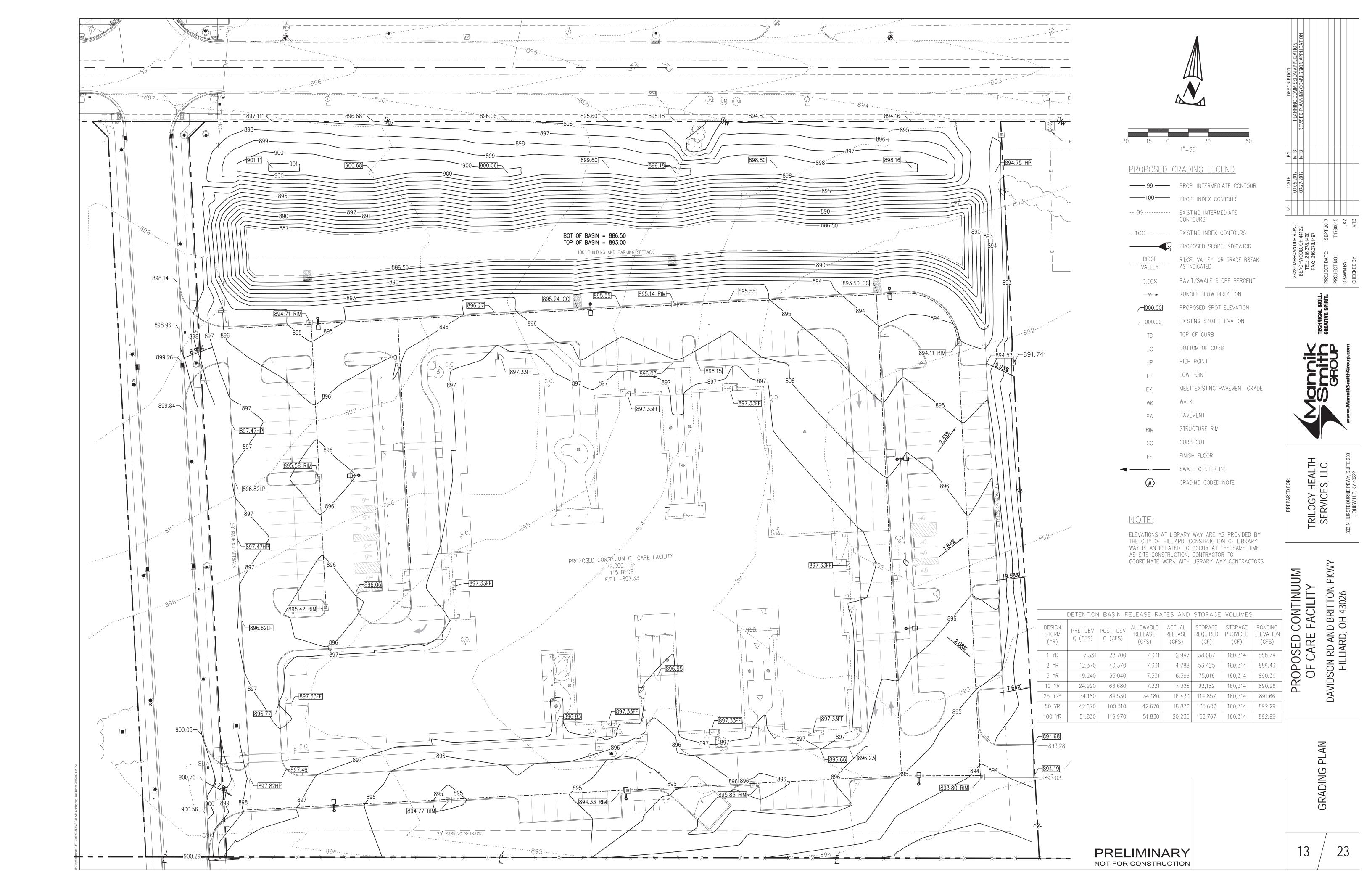
SITE LAYOUT PLAN

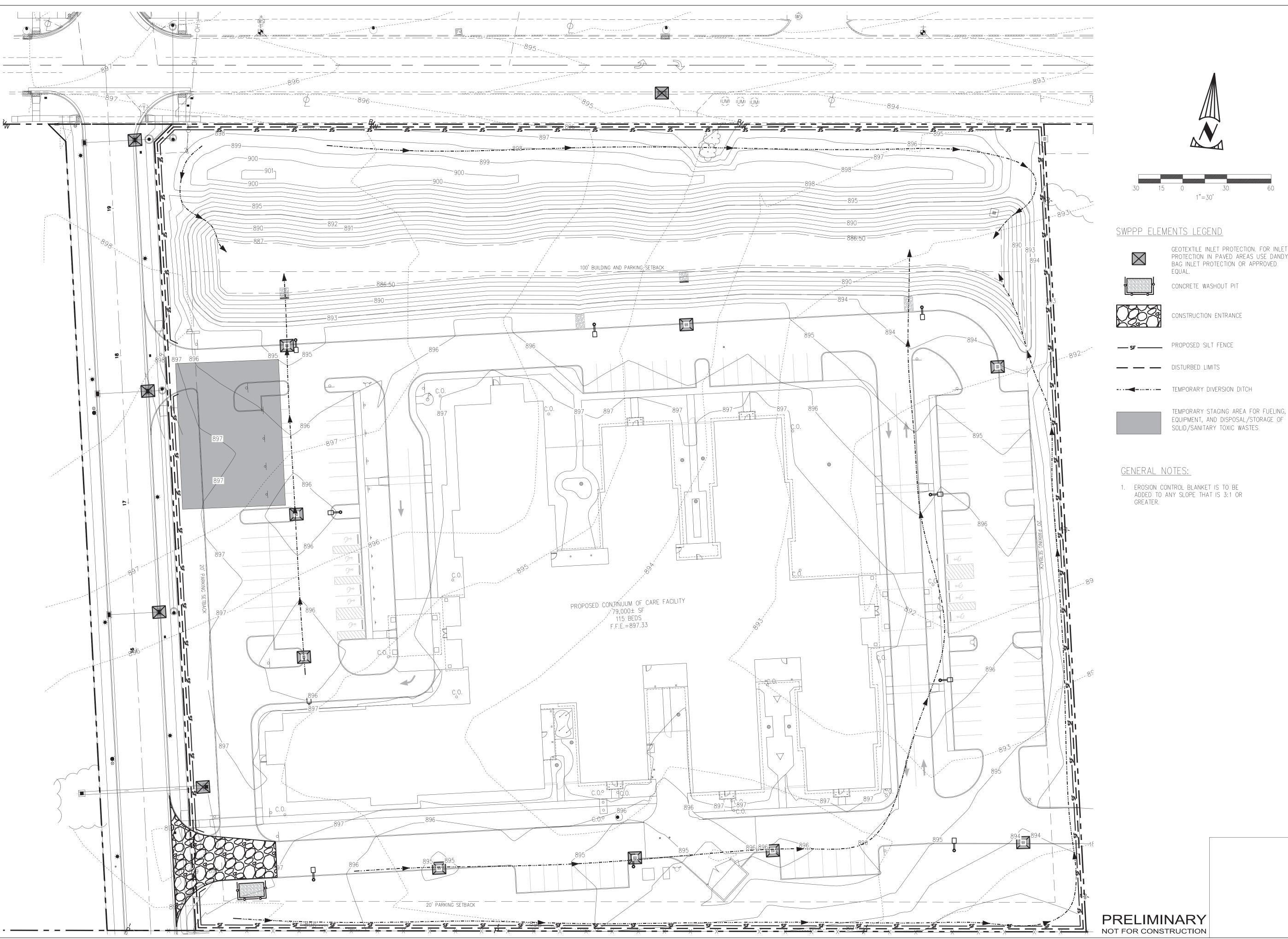
23



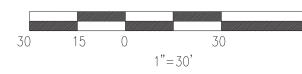












GEOTEXTILE INLET PROTECTION. FOR INLET PROTECTION IN PAVED AREAS USE DANDY BAG INLET PROTECTION OR APPROVED

CONCRETE WASHOUT PIT

EQUIPMENT, AND DISPOSAL/STORAGE OF SOLID/SANITARY TOXIC WASTES

1. EROSION CONTROL BLANKET IS TO BE ADDED TO ANY SLOPE THAT IS 3:1 OR



TRILO( SERV

DAVIDSON RD AND BRITTON PKWY HILLIARD, OH 43026 PROPOSED CONTINUUM OF CARE FACILITY

23

## GENERAL NOTES FOR EROSION CONTROL

#### SITE DATA:

OWNER/DEVELOPER:	TRILOGY HEALTH SERVICES, LLC 330 N HURSTBOURNE PARKWAY, SUITE 200 LOUISVILLE, KY 40222 PROJECT MANAGER: TED
PLAN DESIGNER:	MANNIK & SMITH GROUP 23225 MERCANTILE ROAD BEACHWOOD, OH 44122-5911 PROJECT MANAGER: MICHAEL BRAND

DEVELOPMENT TYPE: THE PROPOSED PROJECT CONSISTS OF THE CONSTRUCTION OF A 79,000 SF MUILTI-STORY CONTINUATION OF CARE SKILLED CARE FACILITY, AND ASSOCIATED DRIVES, PARKING, UTILITY IMPROVEMENTS, SITE LANDSCAPING, AND STORM WATER MANAGEMENT BASIN.

ESTIMATED START DATE: MARCH 2018 ESTIMATED COMPLETION DATE: SEPTEMBER 2019

SITE ACREAGE SUMMARY: IMPERVIOUS AREA PRIOR TO THE START OF CONSTRUCTION: ACRES IMPERVIOUS AREA AT COMPLETION OF PROJECT: ACRES PERCENT INCREASE / DECREASE OF IMPERVIOUS AREA: %

AREA DISTURBED BY THIS PROJECT: 7.588 ACRES TOTAL SITE AREA: ACRES PERCENTAGE OF SITE DISTURBED: %

PRE-CONSTRUCTION RUNOFF COFFFICIENT CN= RUNOFF COEFFICIENTS: POST-CONSTRUCTION RUNOFF COEFFICIENT CN=

SITE VEGETATION: FARM FIELD CONSISTING OF CROSBY SILTY LOAM, KOKOMO SILTY CLAY LOAM, AND LEWISBURG-CROSBY COMPLEX SOILS.

ADJACENT AREAS: SITE IS BORDERED BY ENCHANTED CARE LEARNING CENTER AND KIDS CAMPUS ACROSS FROM (DAVIDSON RD.) TO THE NORTH, A VACANT COMMERCIAL LOT TO THE EAST. A VACANT LOT AND EASEMENT TO THE SOUTH, AND THE PROPOSED LIBRARY WAY ROADWAY TO THE

RECEIVING WATERS: CITY OF HILLARD STORM SEWER SYSTEM ULTIMATELY TRIBUTARY TO THE SCIOTO RIVER WATERSHED

DETENTION BASIN STORM WATER MANAGEMENT: STORM WATER QUALITY: DETENTION BASIN

A COPY OF THE SWP3, THE NPDES PERMIT, AND THE OHIO EPA NOI MUST BE KEPT ON SITE AND CLEARLY DISPLAYED AT ALL TIMES.

#### MAINTENANCE NOTES:

THE OWNER'S REPRESENTATIVE WILL INSPECT ALL EROSION AND SEDIMENTATION CONTROL MEASURES WEEKLY AND WITHIN 24 HOURS AFTER EACH RAINFALL EVENT TO ASSURE THAT THE MEASURES ARE FUNCTIONING PROPERLY. THE OWNER/CONTRACTOR SHALL KEEP INSPECTION REPORTS, COPIES OF WHICH SHALL BE PROVIDED TO THE CITY OF HILLIARD OR OHIO EPA UPON REQUEST.

THE OWNER/DEVELOPER MUST MAINTAIN A DOCUMENT SIGNED BY ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED IN THE SWP3 IMPLEMENTATION. THE DOCUMENT MUST CERTIFY THAT THE CONTRACTOR(S) HAS READ AND UNDERSTANDS THE SWP3. THE OWNER/DEVELOPER IS TO PROVIDE THE CITY OF HILLIARD WITH A COPY OF THIS DOCUMENT.

#### CONSTRUCTION ROAD/CONSTRUCTION ENTRANCE:

BOTH TEMPORARY AND PERMANENT ROADS AND PARKING AREAS MAY REQUIRE PERIODIC TOP DRESSING WITH NEW GRAVEL. SEEDED AREAS ADJACENT TO THE ROADS AND PARKING AREAS SHOULD BE CHECKED PERIODICALLY TO ENSURE THAT A VIGOROUS STAND OF VEGETATION IS MAINTAINED. ROADSIDE DITCHES AND OTHER DRAINAGE STRUCTURES SHOULD BE CHECKED REGULARLY TO ENSURE THAT THEY DO NOT BECOME CLOGGED WITH SILT OR OTHER DEBRIS.

### FILTER FABRIC FENCE:

FILTER FABRIC FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER FACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

SEDIMENT THAT IS COLLECTED WILL BE DISTRIBUTED ON THE PROTECTED PORTION OF THE SITE AND STABILIZED. ALL STOCKPILES OF EARTH AND TOPSOIL WILL BE PROTECTED WITH TEMPORARY SEEDING OR OTHER MEANS TO PREVENT EROSION.

SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF (1/2) THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

#### INLET PROTECTION:

ALL STORM SEWER INLETS SHALL BE PROTECTED BY SEDIMENT TRAPS (INLET PROTECTION), WHICH WILL BE MAINTAINED AND MODIFIED AS REQUIRED AS CONSTRUCTION PROGRESSES.

THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAINFALL AND REPAIRS MADE AS NEEDED.

SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF (1/2) THE DESIGN OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA IN SUCH A MANNER THAT IT WILL NOT ERODE.

ANY SEDIMENT BLOCKING DRAINAGE AT INLETS THAT CREATES STANDING WATER ON ROADWAYS AND/OR DRIVEWAYS SHALL BE REMOVED IMMEDIATELY.

INLET PROTECTION STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

#### GENERAL LAND CONSERVATION NOTES:

ALL STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING FOR ALL SITES.

PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED ACCORDING TO THE FOLLOWING OHIO EPA CRITERIA:

PERMANENT S	STABILIZATION_
AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WLL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREA WITH IN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAY IF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

TEMPORARY STABILIZATION		
AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS	
ANY DISTURBED AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS	
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED 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 LOTS.	
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER	

ALL STORM SEWER, SANITARY SEWER, WATER MAIN AND SERVICE TRENCHES SHALL BE SEEDED AND MULCHED WITHIN 14 DAYS AFTER BACKFILL IF INSTALLATION IS THROUGH STABILIZED AREAS. NO MORE THAN 250 FEET OF TRENCH WILL BE OPEN AT ANY ONE TIME.

ELECTRICAL POWER, TELEPHONE, CABLE TELEVISION AND GAS SUPPLY TRENCHES SHALL BE COMPACTED, SEEDED AND MULCHED WITHIN 14 DAYS AFTER BACKFILL IF INSTALLATION IS THROUGH STABILIZED AREAS.

ALL TEMPORARY DIVERSIONS, SEDIMENT BASIN EMBANKMENTS AND EARTH STOCKPILES SHALL BE SEEDED AND MULCHED FOR TEMPORARY VEGETATIVE COVER WITHIN 7 DAYS AFTER GRADING.

ANY DISTURBED AREA NOT STABILIZED WITH SEEDING, SODDING, PAVING, OR BUILT UPON BY NOVEMBER 1ST. OR AREAS DISTURBED AFTER THAT DATE, SHALL BE MULCHED IMMEDIATELY WITH HYDRO MULCH AT THE RATE OF ONE (1) TON PER ACRE AND OVER-SEEDED BY APRIL 15TH.

ALL DENOTED AREAS SHALL BE STABILIZED AND TEMPORARY SEDIMENTATION & EROSION CONTROLS SHALL BE REMOVED ONCE THE SITE HAS BEEN STABILIZED AT THE COMPLETION OF CONSTRUCTION.

#### SEDIMENT AND EROSION CONTROL NOTES:

- 1. THE STORM WATER POLLUTION PREVENTION PLAN AND DETAILS SHALL BE AVAILABLE FOR INSPECTION ON SITE DURING WORKING HOURS.
- 2. CONTRACTOR SHALL MAINTAIN A LOG DOCUMENTING GRADING AND STABILIZATION ACTIVITIES AS WELL AS AMENDMENTS TO THE STORM WATER POLLUTION PLAN, WHICH OCCUR AFTER CONSTRUCTION ACTIVITIES COMMENCE.
- 3. MINIMIZE TRACKING OF SEDIMENTS BY VEHICLES BY UTILIZING THE CONSTRUCTION ENTRANCE AS THE ONLY ENTRANCE FOR VEHICLES. MAINTAIN THIS ENTRANCE WITH STONE AS NEEDED TO PREVENT DIRT AND MUD FROM TRACKING ONTO THE ROADWAY. REGULAR SWEEPING OF THE ROADWAY MAY BE NECESSARY TO ENSURE ROADWAY DOES NOT BUILD UP WITH SEDIMENTS.
- 4. THE OWNER OF RECORD MUST PROVIDE REGULAR INSPECTION AND MAINTENANCE FOR ALL EROSION AND SEDIMENT CONTROL PRACTICES. PERMANENT RECORDS OF ALL MAINTENANCE AND INSPECTIONS MUST BE KEPT THROUGHOUT THE CONSTRUCTION PERIOD. INSPECTION MUST BE MADE A MINIMUM OF ONCE EVERY SEVEN (7) DAYS AND IMMEDIATELY AFTER STORM EVENTS GREATER THAN 0.5 INCHES OF RAIN WITHIN A 24-HOUR PERIOD. THE NAME OF OWNER'S DESIGNATED INSPECTOR, MAJOR OBSERVATIONS, DATE OF INSPECTIONS AND CORRECTIVE MEASURES TAKEN MUST BE NOTED ON ALL INSPECTIONS.
- 5. OTHER EROSION AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS AND MAY BE REQUIRED AT THE DISCRETION OF THE CITY AND/OR COUNTY SOIL AND WATER CONSERVATION DISTRICT OR ITS REPRESENTATIVES.
- 6. SEDIMENT/STORMWATER PONDS AND EROSION AND SEDIMENT CONTROLS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN 7 DAYS FROM THE START OF GRUBBING. UPON COMPLETION OF CONSTRUCTION OF PONDS. SFEDING AND MULCHING SHALL IMMEDIATELY FOLLOW TO AID IN THE STABILIZATION AND MINIMIZE EROSION AND SEDIMENT TRANSPORT OF THE SOIL BEFORE WATER LEAVES THE POND. ALL EROSION AND SEDIMENT CONTROLS SHALL CONTINUE TO FUNCTION UNTIL DISTURBED AREAS ARE RESTABILIZED.
- NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFE (THIS INCLUDES WASHING OUT OF CEMENT TRUCKS.) DESIGNATED WASH PIT AREAS ARE SHOWN ON THE PLANS AND ARE PRESET FOR THIS PURPOSE AWAY FROM AREAS OF STORM WATER RUNOFF.
- 8. WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED. THESE TECHNIQUES MAY INCLUDE MULCHING, EROSION MATTING, OR PLACEMENT OF STONE.
- 9. THE CONTRACTOR SHALL LIMIT THE SURFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY EXCAVATION, BORROW, AND FILL OPERATIONS AND PROVIDE IMMEDIATE PERMANENT OR TEMPORARY CONTROL MÉASURES TO PREVENT CONTAMINATION OF ADJACENT STREAMS OR OTHER WATER COURSES, LAKES, PONDS, OR OTHER AREAS OF WATER IMPOUNDMENT.
- 10. THIS WORK SHALL CONSIST OF TEMPORARY CONTROL MEASURES AS DETAILED IN THE PLANS OR ORDERED BY THE ENGINEER DURING THE LIFE OF THE CONTRACT TO CONTROL SOIL EROSION AND SEDIMENTATION THROUGH USE OF BEST MANAGEMENT PRACTICES AS DETAILED IN THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL.
- 11. TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS, THE LOCATION AND SIZE OF WHICH ARE DETAILED IN THE PLANS, SHALL BE INSTALLED BY THE CONTRACTOR UPON COMMENCEMENT OF ANY CLEARING OR EARTHWORK OPERATIONS. TEMPORARY CONTROL MEASURES WILL BE USED WHEN AND AS DIRECTED BY THE ENGINEER TO CORRECT CONDITIONS THAT DEVELOP DURING CONSTRUCTION THAT WERE NOT FORESEEN DURING THE DESIGN STAGE; THAT ARE NEEDED PRIOR TO INSTALLATION OF PERMANENT CONTROL FEATURES; OR THAT ARE NEEDED TEMPORARILY TO CONTROL EROSION THAT DEVELOPS DURING NORMAL CONSTRUCTION PRACTICES
- 12. EXISTING VEGETATIVE GROWTH SHALL REMAIN UNDISTURBED AS LONG AS POSSIBLE. THE CONTRACTOR SHALL SEED AND MULCH ALL AREAS DISTURBED.
- 13. TEMPORARY EROSION CONTROL FEATURES SHALL BE ACCEPTABLY MAINTAINED AND SHALL SUBSEQUENTLY BE REMOVED OR REPLACED WHEN DIRECTED BY THE ENGINEER. TEMPORARY AND PERMANENT EROSION CONTROL FEATURES SHALL BE CHECKED AFTER EACH MEASURABLE RAINFALL AND RE-ESTABLISHED AS NECESSARY. REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF THE SITE.
- 14. CONTRACTOR IS TO PROVIDE SPECIFIC LOCATIONS FOR THE PROPER CROSSING OF DIVERSION SWALES WITH VEHICLES AND EQUIPMENT. AT THESE LOCATIONS THE DIVERSION SWALES SHALL BE PROTECTED FROM INCURRING DAMAGE FROM THE VEHICLES AND EQUIPMENT. IF ANY DAMAGE IS TO OCCUR THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING SAID DAMAGE IMMEDIATELY, PRIOR TO CONTINUATION OF WORK ON SITE.
- 15. IF PROPER CONTROL OF SOIL EROSION AND SEDIMENTATION IS NOT BEING PROVIDED BY THE CONTRACTOR, THE ENGINEER MAY WITHHOLD PROGRESS ESTIMATES UNTIL PROPER CONTROL IS
- 16. IN THE EVENT THAT TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED DUE TO THE CONTRACTOR'S NEGLIGENCE, CARELESSNESS, OR FAILURE TO INSTALL PERMANENT CONTROLS AS A PART OF THE WORK AS SCHEDULED, AND ARE ORDERED BY THE ENGINEER, SUCH TEMPORARY WORK SHALL BE PERFORMED BY THE CONTRACTOR AT HIS EXPENSE.
- 17. THE CONTRACTOR SHALL MAINTAIN ALL SEEDED, MULCHED AREAS UNTIL FINIAL INSPECTION. MAINTENANCE SHALL ALSO INCLUDE REPAIRING ANY AREAS DAMAGED FOLLOWING THE SEEDING OR MULCHING OPERATION DUE TO WIND, WATER, FIRE, OR OTHER CAUSES. SUCH DAMAGED AREAS SHALL BE REPAIRED TO RE-ESTABLISH THE CONDITION OF THE GRADE OF THE AREA PRIOR TO SEEDING AND SHALL THEN BE RE-FERTILIZED RE-SEEDED, RE-MULCHED AS DIRECTED BY THE PROJECT ENGINEER.

- 18. INSTALL SILT FENCE OR COMBINATION BARRIERS AT LOCATIONS SO INDICATED ON THE STORMWATER POLLUTION PREVENTION PLAN (SEE DETAIL).
- 19. SILT FENCE TO BE PLACED AROUND ALL YARD DRAINS TO MINIMIZE SILTING OF PIPE AND TRANSPORT OF SILT (SEE DETAIL).
- 20. INSTALL GRAVEL AND WIRE SEDIMENT FILTERS ON ALL ROAD INLETS (SEE DROP INLET PROTECTION
- 21. INSTALL TEMPORARY AGGREGATE PAD AT POINT OF INGRESS AND EGRESS FROM PROJECT TO PREVENT VEHICULAR TRACKING OFF-SITE (SEE DETAIL). THE PAD SHALL BE CLEANED AND REPLENISHED, AS NECESSARY, DURING THE CONSTRUCTION PERIOD.
- 22. IF TRENCH OR GROUND WATER CONTAINS SEDIMENT, IT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR OTHER EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE PRIOR TO BEING DISCHARGED FROM THE CONSTRUCTION SITE. ALTERNATIVELY, SEDIMENT MAY BE REMOVED BY SETTLING IN PLACE OR BY DEWATERING INTO A SUMP PIT, FILTER BAG, OR COMPARABLE PRACTICE.
- 23. TOPSOIL STOCKPILES SHALL RECEIVE TEMPORARY SEEDING AND MULCHING AS SOON AS STOCKPILING OPERATIONS ARE COMPLETED OR A SILT FENCE SHALL BE INSTALLED ALONG AND 20 FEET FROM THE TOE OF THE STOCKPILE. TOPSOIL SHALL BE REPLACED AS QUICKLY AS CONSTRUCTION PERMITS.
- 24. ADDITIONAL EROSION CONTROLS MAY BE MANDATED BY THOSE AGENCIES HAVING JURISDICTION.
- 25. ROUTINE INSPECTION WILL BE CONDUCTED ON ALL EROSION CONTROL PRACTICES FOR THIS PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR CORRECTING ALL DEFICIENCIES REVEALED BY THE INSPECTIONS.
- 26. ALL EROSION CONTROL PRACTICES SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE OHIO EPA GENERAL CONSTRUCTION PERMIT REQUIREMENTS.
- 27. THIS SITE IS COVERED UNDER OHIO EPA GENERAL PERMIT OHCO00004 FOR STORM WATER POLLUTION ASSOCIATED WITH CONSTRUCTION.

#### EQUIPMENT FUELING AND MAINTENANCE

- 28. LOCATION OF THE FUELING AND STAGING AREA IS SHOWN ON THE SWPPP. MODIFICATIONS TO THE LOCATION OF THE EQUIPMENT FUELING AREA SHALL BE SHOWN ON AN AMEDNED SWPPP. THE FUELING AREA SHALL BE ESTABLISHED EITHER ON EXISTING PAVEMENT OR ON 12" OF GRANULAR AGGREGATE BASE. IF AN AGGREGATE BASE COURSE IS USED, THEN THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE STONE SUCH THAT IT IS REPLENISHED WHEN THE DEPTH IS LESS THAN 6" OR REMOVED AND REPLACED IF THE STONE BECOMES LADEN WITH MUD.
- 29. A SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN MUST BE DEVELOPED FOR SITES WITH ONE ABOVE GROUND STORAGE TANK (AST) OF 660 GALLONS OR MORE, TOTAL ABOVE GROUND TANK STORAGE OF 1330 GALLONS, OR BELOW GROUND STORAGE OF 42,000 GALLONS OF FUEL.

#### WASTE DISPOSAL

DETAIL).

30. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A MINIMUM OF ONE SOLID WASTE DISPOSAL RECEPTACLE AND HAVE THIS RECEPTACLE EMPTIED BY A CONTRACT TRASH DISPOSAL SERVICE AND HAULED AWAY FROM THE SITE AS NECESSARY. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS ARE ALLOWED TO BE DISCHARGED FROM THE SITE WITH STORM WATER. ALL SOLID WASTE, INCLUDING DISPOSABLE MATERIALS INCIDENTAL TO THE MAJOR CONSTRUCTION ACTIVITIES, MUST BE COLLECTED AND PLACED IN THESE RECEPTACLES. THE LOCATION IS TO BE DETERMINED IN THE FIELD. ALL CONTAINERS MUST BE COVERED AND LEAK-PROOF.

#### SPILL REQUIREMENTS

- 31. SHOULD AN ACCIDENTAL SPILL OCCUR, IMMEDIATE ACTION WILL BE UNDERTAKEN BY THE GENERAL CONTRACTOR TO CONTAIN AND REMOVE THE SPILLED MATERIAL IMMEDIATELY AND BE DISPOSED OF BY THE CONTRACTOR IN THE MANNER SPECIFIED BY LOCAL, STATE, AND FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS, AS SOON AS POSSIBLE, ALL SPILLS >25 GALLONS SHALL BE REPORTED TO THE APPROPRIATE STATE AND LOCAL AGENCIES. THIS SHALL INCLUDE THE OHIO EPA AT 800-282-9378, THE LOCAL FIRE DEPARTMENT, THE NATIONAL RESPONSE CENTER AT 800-424-8802, US COAST GUARD 440-288-1206 (IF APPLICABLE).
- 32. ALL CONTAMINATED SOILS MUST BE TREATED AND/OR DISPOSED IN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITIES OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITIES (TSDFS).

#### NON-SEDIMENT POLLUTION CONTROLS

- 33. THE CONTRACTOR IS RESPONSIBLE FOR ALL NON-SEDIMENT POLLUTION CONTROLS AT THIS SITE, WHICH PROHIBIT NON-SEDIMENT POLLUTANTS FROM DISCHARGING INTO RUNOFF OR INTO THE GROUND AND MUST DISPOSE OF THEM IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATORY AUTHORITIES. IT IS PROHIBITED TO BURN, BURY, OR POUR OUT ONTO THE GROUND, DITCH OR INTO A STORM SEWER- SOLVENTS, PAINTS, STAINS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CÉMENT, CÚRING CÓMPOUND ÁND OTHER SUCH TOXIC OR HAZARDOUS WASTE. STORAGE TANKS SHALL BE LOCATED IN DIKED AREAS AWAY FROM DRAINAGE CHANNELS AND THE DIKED AREA SHOULD HOLD A VOLUME OF 110% OF THE LARGEST TRUCK OR TANK, SHOULD THE CONTRACTOR FAIL TO PREVENT NON-SEDIMENT POLLUTION AT THIS SITE. HE MUST IMMEDIATELY REMEDIATE THE SITE TO LOCAL, STATE AND FEDERAL REGULATORY AUTHORITIES APPROVAL AT HIS OWN EXPENSE.
- 34. OPEN BURNING SHOULD BE DONE IN ACCORDANCE WITH (OAC 3745-19). IF OPEN BURNING IS PFRMITTFD IT SHOULD BE DONE IN RESTRICTED AREAS FOR BARBECUÉS, HEATING, AND CERTAIN OCCUPATIONAL PURPOSES. OPEN BURNING IN AN UNRESTRICTED AREA IS LIMITED TO SCRAP LUMBER, WOODEN FENCE POSTS, AGRICULTURAL, LAND-CLEARING, OR LANDSCAPE WASTES.
- 35. CONTRACTOR MAY NOT USE OIL AS A DUST SUPPRESSANT.

#### CONSTRUCTION FILL, DEMOLITION DEBRIS & CHEMICAL COMPOUNDS

- 36. THE CONTRACTOR IS RESPONSIBLE TO PREVENT DISCHARGE OF WASTE CONCRETE AND/OR WASH WATER FROM CONCRETE TRUCKS FROM MIXING WITH RUN-OFF AND LEAVING THE SITE. THE CONTRACTOR SHALL SIZE THE CONCRETE WASHOUT PIT TO HANDLE HIS PROPOSED CONCRETE OPERATIONS AND SHALL MAINTAIN THE PIT SUCH THAT ALL CONCRETE TRUCKS CAN USE IT TO WASHOUT. ALL CURED RESIDUE FROM THE PIT SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. A GENERAL LOCATION FOR THE WASHOUT PIT IS SHOWN ON THE PLAN AND MAY BE MOVED TO BETTER FIT THE CONTRACTOR'S METHODS.
- 37. ALL CONSTRUCTION AND DEMOLITION DEBRIS (C&DD) WASTE WILL BE DISPOSED OF IN AN OHIO EPA APPROVED C&DD LANDFILL AS REQUIRED BY OHIO REVISED CODE(ORC)3714. MATERIALS WHICH CONTAIN ASBESTOS MUST COMPLY WITH AIR POLLUTION REGULATIONS (SEE OHIO ADMINISTRATIVE CODE (OAC) 3745-20).

#### INSPECTIONS

- 38. THE STORM WATER POLLUTION PREVENTION PLAN AND DETAILS SHALL BE AVAILABLE FOR INSPECTION ON SITE DURING WORKING HOURS.
- 39. THE OWNER OF RECORD MUST PROVIDE REGULAR INSPECTION AND MAINTENANCE FOR ALL EROSION SEDIMENT CONTROL PRACTICES. OTHER EROSION AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS AND MAY BE REQUIRED AT THE DISCRETION OF THE CITY AND/OR COUNTY SOIL AND WATER CONSERVATION DISTRICT OR ITS REPRESENTATIVES.

- 40. PERMANENT RECORDS OF ALL MAINTENANCE AND INSPECTIONS MUST BE KEPT THROUGHOUT THE CONSTRUCTION PERIOD. INSPECTION MUST BE MADE A MINIMUM OF ONCE EVERY SEVEN (7) DAYS AND IMMEDIATELY AFTER STORM EVENTS GREATER THAN 0.5 INCHES OF RAIN WITHIN A 24-HOUR PERIOD. THE NAME OF OWNER'S DESIGNATED INSPECTOR, MAJOR OBSERVATIONS, DATE OF INSPECTIONS AND CORRECTIVE MEASURES TAKEN MUST BE NOTED ON ALL INSPECTIONS. RECORDS SHALL BE KEPT FOR 3 YEARS AFTER TERMINATION OF CONSTRUCTION ACTIVITIES.
- 41. IF THE SITE WILL BE DORMANT FOR A LONG PERIOD, IT'S STABILIZED, AND LESS FREQUENT INSPECTIONS ARE DESIRED, A WAIVER REQUEST MAY BE SUBMITTED TO OEPA FOR A REDUCTION TO MONTHLY INSPECTION.
- 42. ALL INSPECTIONS SHALL BE CONDUCTED BY A QUALIFIED INSPECTION PERSONNEL.
- 43. AN INSPECTION CHECKLIST SHALL BE COMPLETED AND SIGNED BY THE INSPECTOR AFTER EVERY INSPECTION.
- 44. FOR BMP'S THAT HAVE BEEN DETERMINED NEED REPAIR OR MAINTENANCE, NON-SEDIMENT POND BMP'S SHALL BE REPAIRED WITHIN 3 DAYS OF INSPECTION AND SEDIMENT PONDS SHALL BE REPAIRED OR CLEANED OUT WITHIN 10 DAYS OF THE INSPECTION.
- 45. FOR BMP'S NOT MEETING THE INTENDED FUNCTION, THE BMP SHALL BE REPLACED WITH A NEW BMP AND INSTALLED WITHIN 10 DAYS OF INSPECTION.
- 46. FOR MISSING BMP'S REQUIRED FOR INSTALLATION BY THE SWPPP, THE BMP SHALL BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION.

#### CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED. UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWNG VIOLATIONS.

PERSON OF RESPONSIBLE CHARGE AS DEFINED IN PART V.G.1 OF THE

OHIO EPA PERMIT NO. OHCO00004

**PRELIMINARY** 

NOT FOR CONSTRUCTION

DATE



H S TRILO( SERV

3.1. THE DISCHARGE OF THE WATER QUALITY VOLUME WILL BE MANAGED

3.8.2. FT3 / CFS = HOURS > 16 HOURS THEREFORE O.K.

3.10. TOTAL DRAW DOWN TIME = HRS + HRS = HRS; > 48 HRS.

TWO-THIRDS ELEVATION WAS USED FOR AVERAGE HEAD ON ORIFICE

3. OUTLET CONTROL STRUCTURE:

3.2. WQV PONDING ELEV. =

3.8. FIRST 50% OF WQV:

3.9. SECOND 50% OF WQV:

3.9.2. FT3 / CFS = HRS

THEREFORE O.K.

3.8.1. Q = CFS

3.9.1. Q = CFS

3.4. WQV = FT3 3.5. 50% WQV = FT3

3.3. 50% OF WQV PONDING ELEV. =

WQV ORIFICE ELEV. =

FOR ORIFICE CALCULATIONS

BY A -INCH DIAMETER ORIFICE.

## CONSTRUCTION SEQUENCE

- 1. INSTALL CONSTRUCTION ENTRANCE, SILT FENCE, AND INLET PROTECTION AT EXISTING CATCH BASINS ALONG LIBRARY WAY AND DAVIDSON RD.
- 2. CLEAR AND GRUB SITE AS PER PLAN.
- 3. INSTALL STORM SEWERS . INSTALL OUTLET CONTROL ITEMS
- 4. EXCAVATE PROPOSED DETENTION BASIN AS PER PLAN.
- 5. PROVIDE TEMPORARY DIVERSION DITCHES TO DETENTION BASIN TO PREVENT RUNOFF FROM EXITING PROJECT SITE.
- 6. DO NOT PERFORM ANY ADDITIONAL SOIL DISTURBING ACTIVITIES UNTIL ALL OF THE ABOVE ACTIVITIES HAVE BEEN COMPLETED.
- 7. INSTALL CONCRETE WASHOUT AREA PRIOR TO TAKING DELIVERY OF ANY CONCRETE.
- 8. INSTALL REMAINDER OF STORM SEWER SYSTEM.
- 9. INSTALL INLET PROTECTION ON CATCH BASINS AS THEY ARE INSTALLED.
- 10. GRADE SITE TO ACHIEVE PROPOSED GRADES.
- 11. COMPLETE SITE CONSTRUCTION.

12. PERFORM THE FOLLOWING UPON ESTABLISHMENT OF SITE VEGETATION: 12.1. EXCAVATE ALL ACCUMULATED SEDIMENT FROM DETENTION BASIN. 12.2. REMOVE SILT FENCE, CONCRETE WASHOUT AREA, AND INLET PROTECTION.

12.3. CLEAN AND JET STORM SEWER SYSTEM.

TEMPORARY SEEDING				
SEEDING DATES	<u>SPECIES</u>	<u>LB. /1000</u> <u>FT2</u>	LB./ACRE	
MARCH 1 TO AUGUST 15	OATS TALL FESCUE ANNUAL RYEGRASS	3 1 1	128 (4 BUSHEL) 40 40	
	PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1 1 1	40 40 40	
	ANNUAL RYEGRASS PERENNIAL RYEGRASS CREEPING RED FESCUE KENTUCKY BLUEGRASS	1.25 3.25 0.4 0.4	55 142 17 17	
	OATS TALL FESCUE ANNUAL RYEGRASS	3 1 1	128 (3 BUSHEL) 40 40	
AUGUST 16 TO NOVEMBER	RYE 3 TALL FESCUE 1 ANNUAL RYEGRASS 1		112 (2 BUSHEL) 40 40	
	WHEAT TALL FESCUE ANNUAL RYEGRASS	3 1 1	120 (2 BUSHEL) 40 40	
	PERENNIAL RYE TALL FESCUE ANNUAL RYEGRASS	1 1 1	40 40 40	
	ANNUAL RYEGRASS PERENNIAL RYEGRASS CREEPING RED FESCUE KENTUCKY BLUEGRASS	1.25 3.25 0.4 0.4	40 40 40	
NOVEMBER 1 TO FEB. 29	29 USE MULCH OR DORMANT SEEDING			

PROJECT NUMBER:			
AMENDMENT NUMBER	DESCRIPTION OF THE AMENDMENT	DATE OF AMENDMENT	AMENDMENT PREPARED BY

SWPPP GRADING AND STABILIZATION ACTIVITIES LOG

SWPPP AMENDMENT LOG

PROJECT NUMBER:				
DATE GRADING ACTIVITY INITIATED	DESCRIPTION OF GRADING ACTIVITY	DATE GRADING ACTIVITY CEASED (INDICATE TEMPORARY OR PERMANENT)	DATE WHEN STABILIZATION MEASURES ARE INITIATED	DESCRIPTION OF STABILIZATION MEASURE AND LOCATION

PERMANENT SEEDING SCHEDULE

SEE LANDSCAPING PLAN, NOTES, AND DETAILS FOR PERMANENT SEEDING



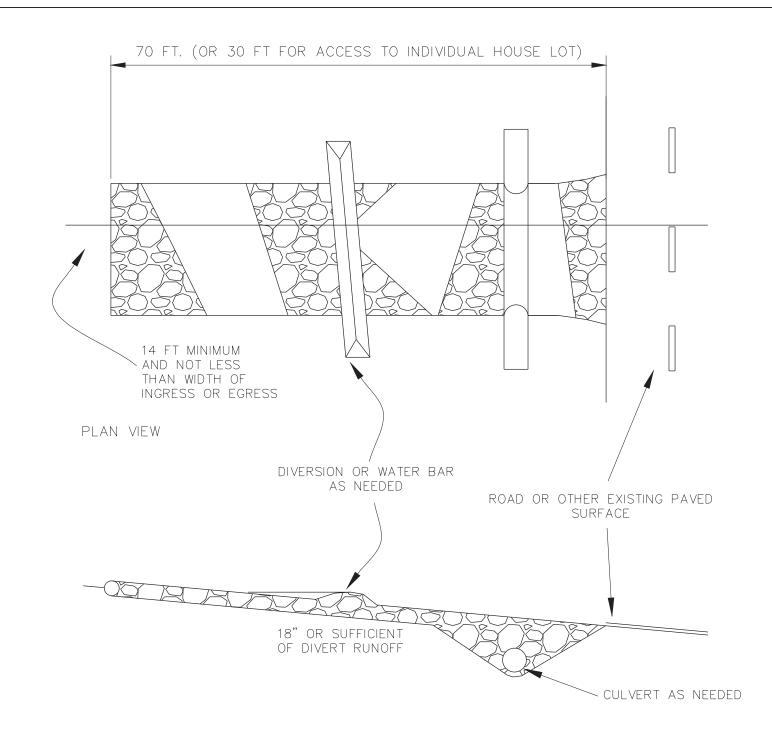
GY HE, /ICES, TRILO( SERV

DAVIDSON RD AND BRITTON PKWY HILLIARD, OH 43026 PROPOSED CONTINUUM OF CARE FACILITY

SWPPP NOTES AND DETAILS

23

**PRELIMINARY** NOT FOR CONSTRUCTION



#### NOTES:

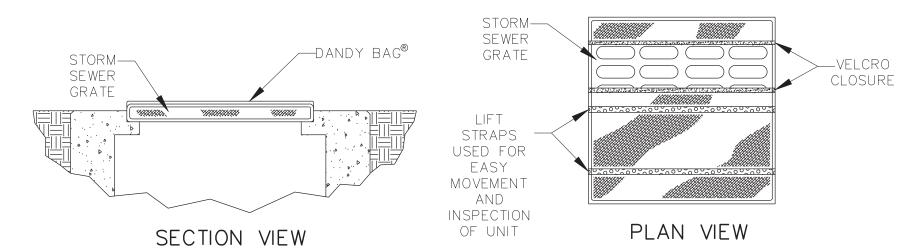
- 1. STONE SIZE--ODOT # 2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
- 2. LENGTH--THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS).
- 3. THICKNESS THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
- 4. WIDTH -THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- 5. 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 IBS. MINIMUM PUNCTURE STRENGTH 80 PSI. MINIMUM TEAR STRENGTH MINIMUM BURST STRENGTH 320 PSI. MINIMUM ELONGATION 20% EQUIVALENT OPENING SIZE EOS<0.6MM. 1X10-3 CM/SEC. PERMITTIVITY

- 6. TIMING--THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
- 7. CULVERT -A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
- 8. 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.
- 9. MAINTENANCE TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR
- 10. 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
- 11. REMOVAL--THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

## CONSTRUCTION ENTRANCE

NOT TO SCALE



DANDY BAG® SPECIFICATIONS

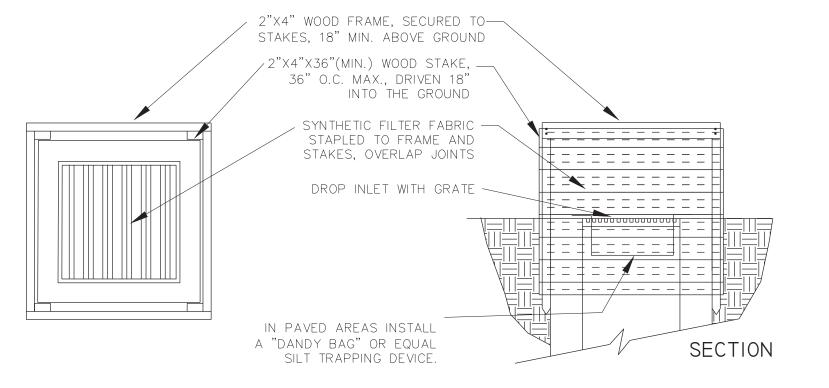
NOTE: THE DANDY BAG® WILL BE MANUFACTURED IN THE U.S.A.FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

#### HI-FLOW DANDY BAG® (SAFETY ORANGE)

MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	KN (LBS)	1.62 (365) X 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4833	KN (LBS)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	KPA (PSI)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0.51 (115) X 0.33 (75)
UV RESISTENCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0.425 (40)
FLOW RATE	ASTM D 4491	$1/MIN/M^{2}(GAL/MIN/FT^{2})$	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC -1	2.1

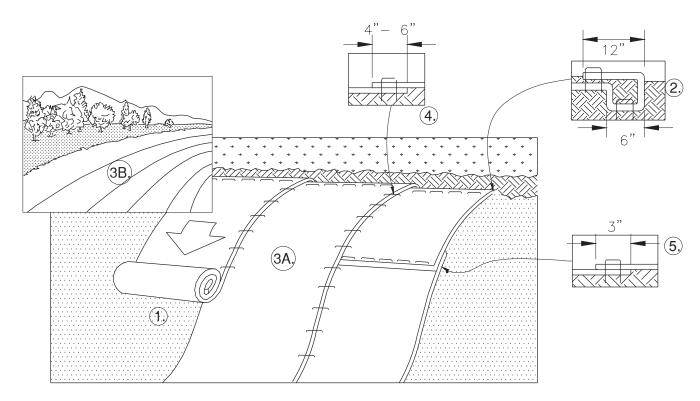
\*NOTE: ALL DANDY BAGS® CAN BE ORDERED WITH OUR OPTIONAL OIL ABSORBENT PILLOWS

# DANDY BAG® INLET PROTECTION



- UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE INLET BECOMES FUNCTIONAL.
- 2. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 INCHES.
- 3. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-INCH BY 4-INCH CONSTRUCTION GRADE LUMBER. THE 2-INCH BY 4-INCH POSTS SHALL BE DRIVEN ONE (1) FT. INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2-INCH BY 4-INCH FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WILL POSE A SAFETY HAZARD TO TRAFFIC.
- 4. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
- 1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE 5. GEOTEXTILE MATERIAL SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18 INCHES BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE
  - CLOTH ARE NOT FASTENED TO THE SAME POST. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6-INCH LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON
  - A COMPACTED EARTH DIKE OR CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION. THE TOP OF THE DIKE SHALL BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF

## GEOTEXTILE INLET PROTECTION



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND

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 APPROXIMATELY 4"-6" OVERLAP DEPENDING ON BLANKET TYPE. 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.

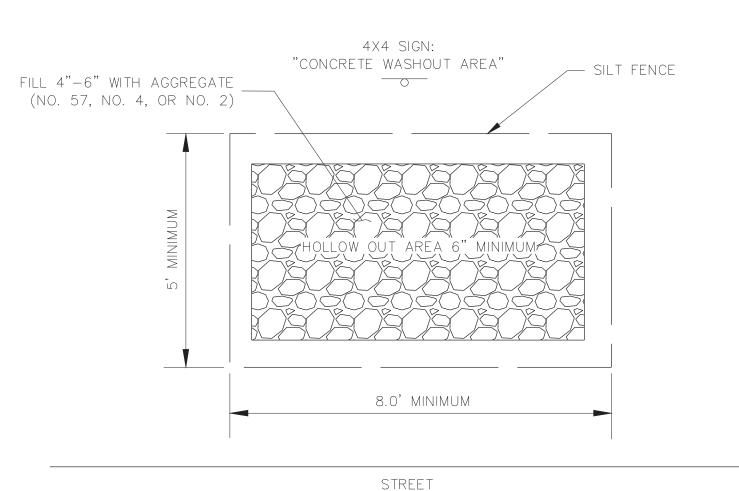
6. PLACE STAPLES/STAKES PER MANUFACTURE RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.

IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

FOLLOW EROSION CONTROL TECHNOLOGY COUNCIL SPECIFICATION FOR PRODUCT SELECTION

# **EROSION CONTROL BLANKET**

(SLOPE INSTALLATION) NOT TO SCALE



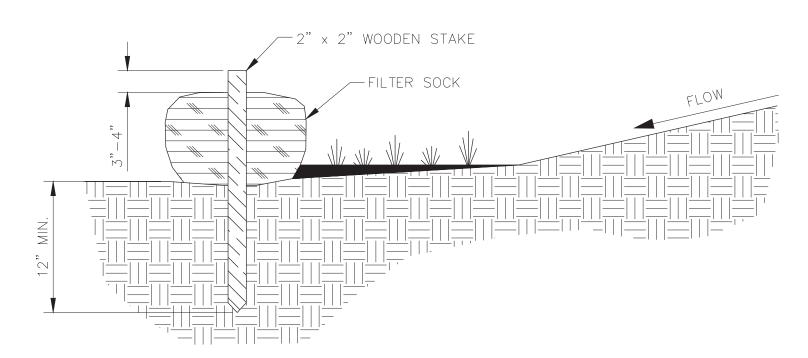
CONCRETE WASHOUT AREA

**PRELIMINARY** NOT FOR CONSTRUCTION

TRILO( SERV

CONTINUUM F FACILITY DAVIDSON RD AND BRITTON HILLIARD, OH 43026 PROPOSED ( OF CARE

AND



# FILTER SOCK

#### NOTES:

- 1. 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 SORCE OF ORGANIC MATTER AND CONSIST OF A PARTICLES RANGING FROM 3/8" TO 2".
- 2. FILTER SOCKS SHALL BE 3 OR 5 MIL CONTINUOUS, TUBULAR, HDPE 3/8" KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST PASSING ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS.

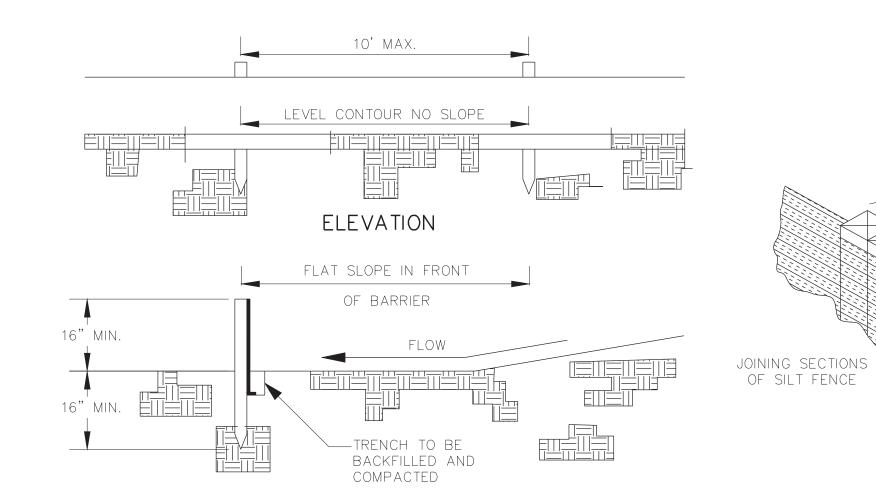
#### INSTALLATION:

- 3. 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.
- 4. FILTER SOCKS ARE INTENDED TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, SHALL BE SEEDED AT THE TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION.

5. FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN RUNOFF CHANNELS.

#### MAINTENANCE:

- 6. ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
- 7. REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE PRACTICE.
- 8. WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
- 9. REMOVAL FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED ON SUCH AS TO FACILITATE AND NOT OBSTRUCT SEEDINGS.



### SECTION

- 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 THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- 3. 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. 4. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA
- AVAILABLE. 5. 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. 6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- 7. 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.
- 8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
- 9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-IN. OVERLAP PRIOR TO DRIVING INTO THE GROUND, (SEE DETAILS). 10. MAINTENANCE--SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS 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: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.

SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE—HALF OF THE HEIGHT OF THE SILT FENCE.

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. CRITERIA FOR SILT FENCE MATERIALS

1. 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.

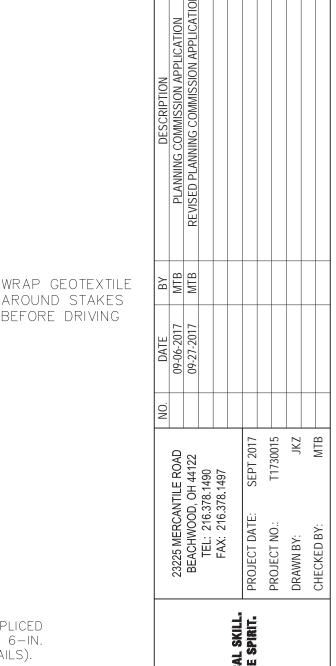
> **PRELIMINARY** NOT FOR CONSTRUCTION

2. SILT FENCE FABRIC - SEE CHART BELOW.

TABLE 6.3.2 MINIMUM CRITERIA FOR SILT FENCE FABRIC (ODOT, 2002)

FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 IBS. (535 N)	ASTM D 4632
MAXIMUM ELONGATION AT 60 IBS	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 LBS (1 80N)	ASTM D 4533
APPARENT OPENING SIZE	≤0.84 MM	ASTM D 4751
MINIMUM PERMITTIVITY	1X10-2 SEC1	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM G 4355

# SILT FENCE



AROUND STAKES

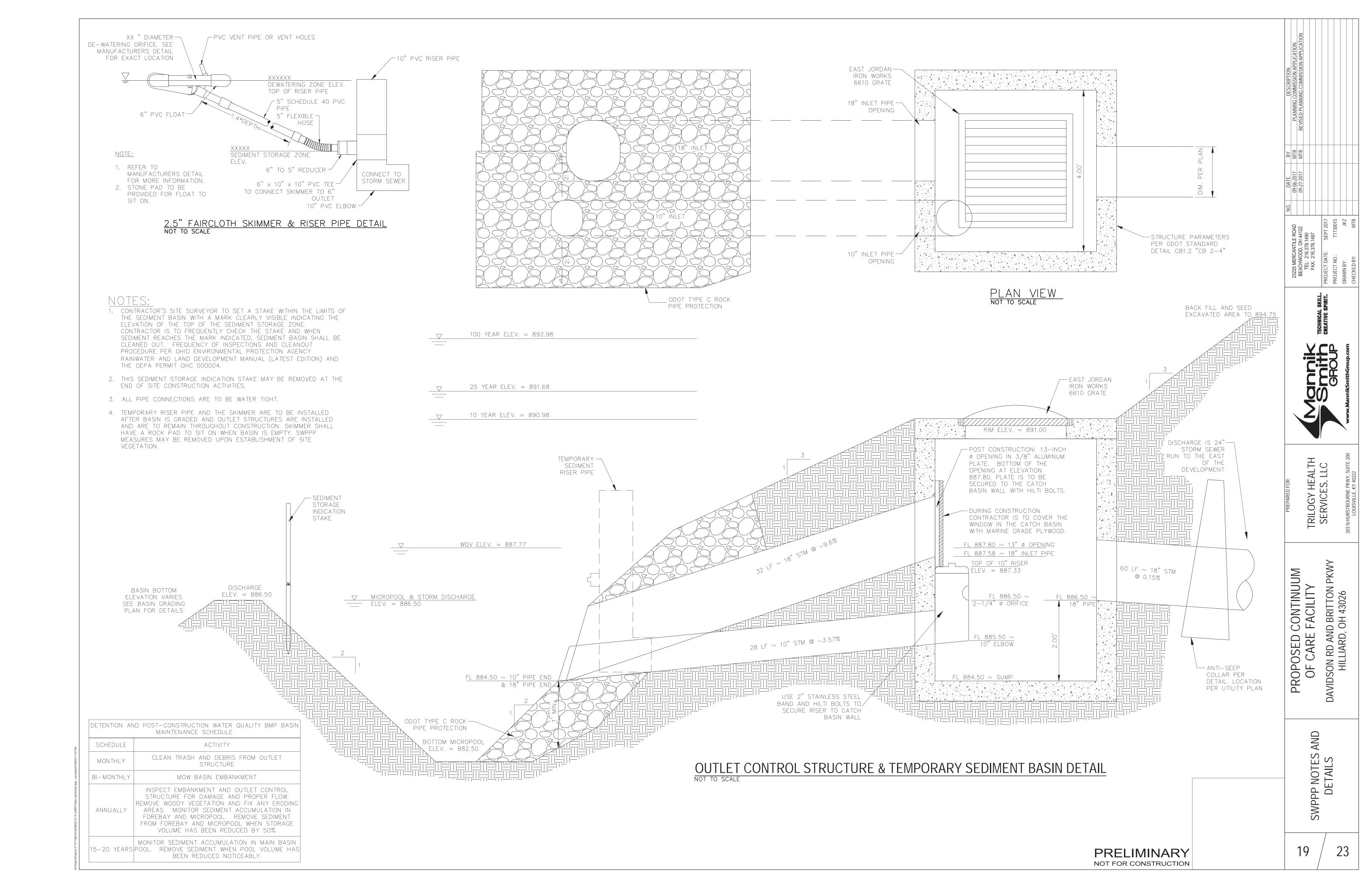
BEFORE DRIVING

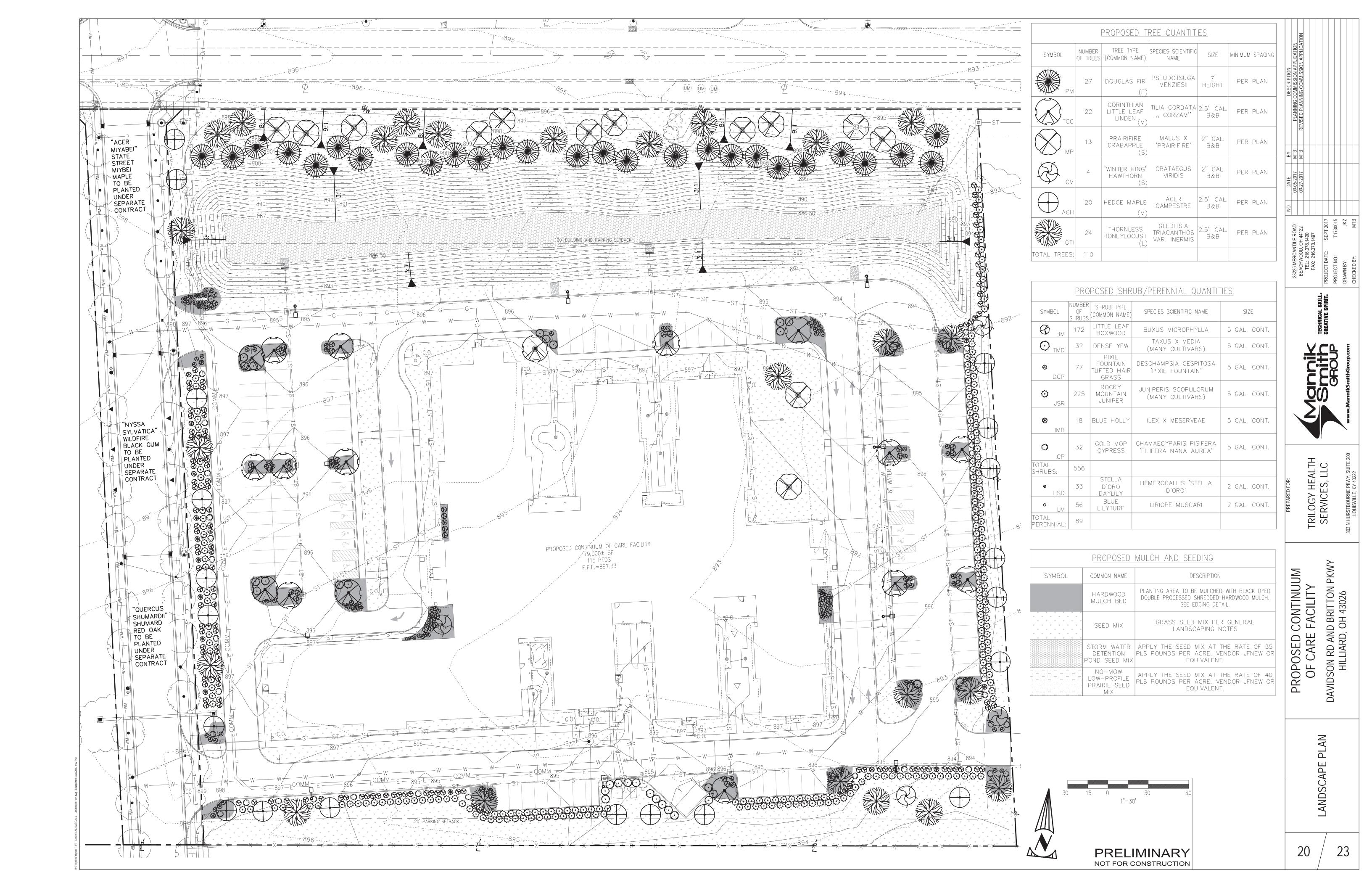
GY HE, /ICES, TRILO( SERV

DAVIDSON RD AND BRITTON PKWY HILLIARD, OH 43026 PROPOSED CONTINUUM OF CARE FACILITY

SWPPP NOTES AND DETAILS

23





#### GENERAL LANDSCAPE NOTES:

- THE CONTRACTOR SHALL PROVIDE A ONE YEAR WARRANTY ON ALL PLANTS AND VEGETATION PROPOSED WITHIN THE LANDSCAPING PLAN. ANY TREES, SHRUBS, GROUND COVER OR OTHER VEGETATION PLANTED AS PART OF THIS PROJECT THAT DO NOT SURVIVE ONE YEAR FROM PLANTING SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH ALL PERTINENT UTILITY COMPANIES 3 WORKING DAYS IN ADVANCE OF ANY DIGGING, THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF ANY UTILITIES.
- REFER TO THE LANDSCAPE SCHEMATIC PLAN FOR ADDITIONAL NOTES. LANDSCAPE IMPROVEMENTS SHALL CONFORM TO THE LATEST EDITION OF ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS AND CITY OF HILLIARD ORDINANCES.
- ALL PLANTING MATERIALS: SHALL BE PLANTED PER ODOT CMS ITEM 661. EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE BROKEN, LOW HANGING AND OTHER UNDESIRABLE GROWTH TO ENSURE HEALTHY AND SYMMETRICAL NEW GROWTH. REFER TO ODOT DRAWING LA-1.1 FOR TREE PRUNING DETAILS AND ODOT ITEM 666 FOR PRUNING SPECIFICATIONS.
- 661.10 PLANTING BEDS. ONE MONTH BEFORE CULTIVATION AND AFTER DAYTIME TEMPERATURES HAVE WARMED TO 60° CONSISTENTLY, TREAT ALL PLANTING BEDS THAT ARE TO BE DEVELOPED IN AREAS OF EXISTING TURF WITH PRE-EMERGENT AND POST-EMERGENT TYPE HERBICIDES. USE A STATE-LICENSED PESTICIDE APPLICATOR TO APPLY THE HERBICIDE. REPEAT HERBICIDE APPLICATION TWO WEEKS LATER AND UNTIL ALL HERBACEOUS MATERIALS HAVE BEEN KILLED. BEFORE PLANTING, TOP DRESS ALL PLANTING BEDS WITH A MINIMUM OF 12 INCHES OF BACKFILL MIX, THEN CULTIVATE PLANTING AREA TO A DEPTH OF 6 INCHES USING A PLOW, DISC, OR ROTO-TILLER.
- 6. 661.11 BACKFILL MIX. FOR ALL PLANTINGS, USE BACKFILL MIX CONSISTING OF THE FOLLOWING: A. ONE PART TOPSOIL.
  - B. ONE PART EPA RATED CLASS IV COMPOST.
  - C. A SLOW RELEASE COMMERCIAL FERTILIZER (0-20-20 OR EQUAL) ADDED AT A RATE OF 5 POUNDS
  - PER CUBIC YARD (3 KG/M3) TO THE BACKFILL MIX.
  - D. IF SOIL AREAS ARE OF HIGH PH (GREATER THAN 6.5), APPLY 1.25 POUNDS OF ELEMENTAL SULFUR PER CUBIC YARD OF BACKFILL MIX.
  - NOTE: CONTRACTOR SHALL SUPPLY A DETAILED SOIL ANALYSIS PRIOR TO ALL PLANT BED PREPARATION.
  - ANALYSIS SHALL INDICATE SOIL PH, TEXTURE, MAJOR NUTRIENTS, SALTS, ETC. SOIL ANALYSIS SHALL BE
  - FROM A REPUTABLE, INDEPENDENT LAB. SOIL AMENDMENTS SHALL BE INCORPORATED INTO BACKFILL/ PLANT MIX AS RECOMMENDED BY THE INDEPENDENT LAB.
- 661.13 MULCH. SMOOTH AND SHAPE THE BACKFILL MIX TO FORM A SHALLOW BASIN SLIGHTLY LARGER THAN THE PLANTING HOLE. MULCH THESE AREAS WITH A 3-INCH (100 MM) LAYER OF FINELY SHREDDED HARDWOOD BARK OF UNIFORM TEXTURE & SIZE. USE SHREDDED HARDWOOD BARK AGED MIN. ONE YEAR. RAKE AND SMOOTH THE ENTIRE AREA OF THE PLANTING BEDS, MULCH TO A DEPTH OF 3 INCHES. AFTER MULCHING AND BEFORE WATERING. ADD A SLOW RELEASE COMMERCIAL FERTILIZER (12-12-12 OR EQUAL), IN GRANULAR FORM, TO THE TOP OF THE MULCH AT A RATE OF 5 POUNDS PER 100 SQUARE FEET. DO NOT ALLOW FERTILIZER TO CONTACT THE STEMS, BRANCHES, ROOTS OR LEAVES.
- 661.17 PERIOD OF ESTABLISHMENT. BEFORE FINAL INSPECTION, PLACE ALL PLANTS AND CARE FOR THEM FOR A PERIOD OF ESTABLISHMENT. THE PERIOD OF ESTABLISHMENT BEGINS IMMEDIATELY UPON COMPLETION OF THE PLANTING OPERATIONS AND CONTINUES UNTIL OCTOBER 1. THE MINIMUM PERIOD OF ESTABLISHMENT IS ONE GROWNG SEASON, JUNE 1 THROUGH OCTOBER 1.DURING THE PERIOD OF ESTABLISHMENT, FOLLOW STANDARD HORTICULTURAL PRACTICES TO ENSURE THE VIGOR AND GROWTH OF THE TRANSPLANTED MATERIAL. WATER, REMULCH, RESTAKE, GUY, AND CULTIVATE AS NECESSARY. PERFORM AT LEAST TWO WEEDING AND MOWING PROGRAMS (AROUND TREES, GUY STAKES, SHRUBS, AND BED EDGES) OF SUCH INTENSITY AS TO COMPLETELY RID THE PLANTED AND MULCHED AREAS OF WEEDS AND GRASSES. BEGIN THE FIRST PROGRAM ON OR ABOUT JUNE 15 AND THE SECOND APPROXIMATELY 8 WEEKS LATER. ON OR ABOUT AUGUST 15, THE ENGINEER WILL INSPECT THE PLANTING AND SUPPLY THE CONTRACTOR WITH A LIST OF MISSING AND DEAD PLANTS AND THOSE THAT HAVE DIED BACK BEYOND NORMAL PRUNING LINES. REPLANT AS REQUIRED ACCORDING TO THE SPECIFICATIONS OF THE ORIGINAL MATERIAL, REPLACEMENT PLANTS ARE SUBJECT TO A NEW PERIOD OF ESTABLISHMENT. IMMEDIATELY REPLACE PLANTS PLANTED INITIALLY IN THE FALL THAT HAVE DIED BEFORE THE SPRING PLANTING SEASON. CARE FOR THE REPLACEMENT PLANTS DURING THE NEW ESTABLISHMENT PERIOD.
- RESTORATION OF DISTURBED AREAS:

MERIT KENTUCKY BLUEGRASS

- ALL LANDSCAPE AREAS DISTURBED BY CONTRACTOR OPERATIONS SHALL BE PREPARED FOR GRASS SEED. LOOSEN RUTS AND WORK THE SOIL AREAS TO A MINIMUM OF 12" DEEP PRIOR TO FINE GRADING AND SEEDING WORK. AREAS TO RECEIVE GRASS SEED SHALL HAVE A MIN. 4" TOPSOIL PLACED, SEEDED AND A STRAW/MULCH BLANKET COVER PLACED OVER THE SEEDED AREAS PER ODOT SPECIFICATIONS.
- 10. LANDSCAPE TREES, SHRUBS AND PERENNIAL WATERING: THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, DELIVERING, APPLYING, MEASURING AND SCHEDULING A SUFFICIENT AMOUNT OF WATER NECESSARY TO KEEP EACH PLANT IN A HEALTHY GROWING CONDITION THROUGHOUT THE PERIOD OF ESTABLISHMENT. THE CONTRACTOR SHALL APPLY 1" OF WATER PER WEEK TO ALL NEW PLANTS. THE CONTRACTOR SHALL INSTALL & MAINTAIN SUPPLEMENTAL DRIP WATERING TREE BAGS (SUCH AS 20 GALLON TREE GATOR WATER BAG) TO PROVIDE ADEQUATE, SLOW RELEASE OF WATER. WATER BAGS SHALL BE REMOVED AT THE END OF THE SECOND GROWNG SEASON.
- TOPSOILING SHALL CONFORM TO ITEM 651 (TOPSOIL STOCKPILED), ITEM 652 (PLACING STOCKPILED TOPSOIL), ITEM 653 (TOPSOIL FURNISHED AND PLACED) AND 654 (RENOVATING EXISTING SOIL) TOPSOIL PLACEMENT MAY BE PLACED WITH HYDROSEEDING, REFER TO ITEM 659.11 FOR ADDITIONAL SPECIFICATIONS.
- 12. TURF GROUNDCOVER (SODDING, SEEDING AND SEED MULCHING): ALL SEEDING INSTALLATION SHALL CONFORM TO ODOT ITEM 653 (TOPSOIL FURNISHED AND PLACED) AND ITEM 659 (SEEDING AND MULCHING). SEED AT 6 LBS/1000 SF WITH THE FOLLOWING SEED MIXTURE: TITAN TALL-TYPE TURF FESCUE 70% 20% 10% SR 4100 PERENNIAL RYEGRASS

REFER TO ITEM 659.12 FOR SEEDING METHODS AND DATES FOR BROADCAST AND HYDRO SEEDING METHODS. REFER TO ITEM 660 FOR SODDING MATERIALS, PREPARATION AND PLACEMENT.

MULCH FREE AT

BASE OF STEM

SPACING AS INDICATED IN

ALL SHRUBS PLANTED IN ROWS OR MASSES SHALL BE MATCHED IN SIZE AND FORM

SHRUBS SHALL BEAR SAME RELATION TO FINISH GRADE AS THEY BORE TO PREVIOUS GRADE.

∕-MULCH LAYER, 3"

-MOUNDED EARTH

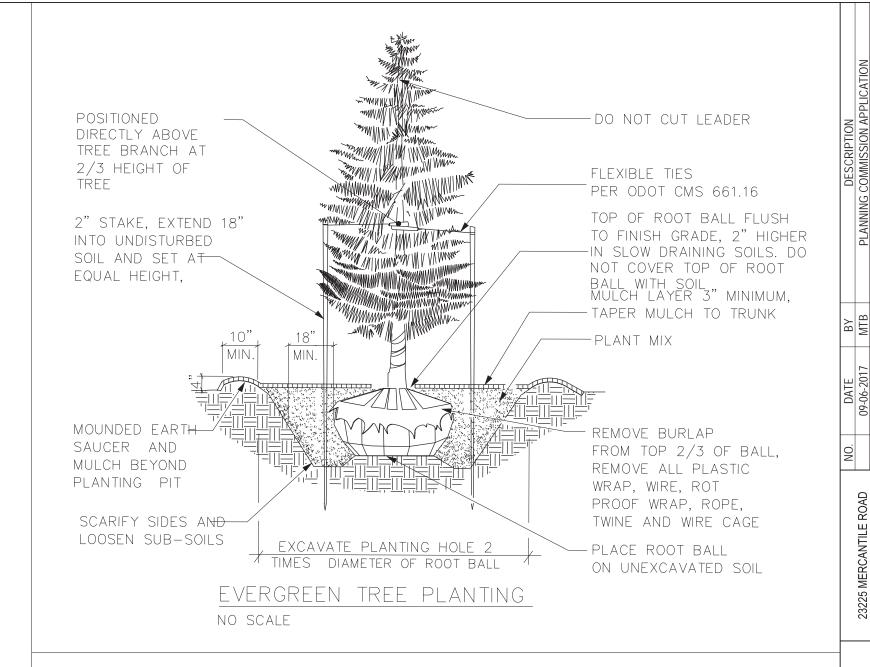
FINISH GRADE

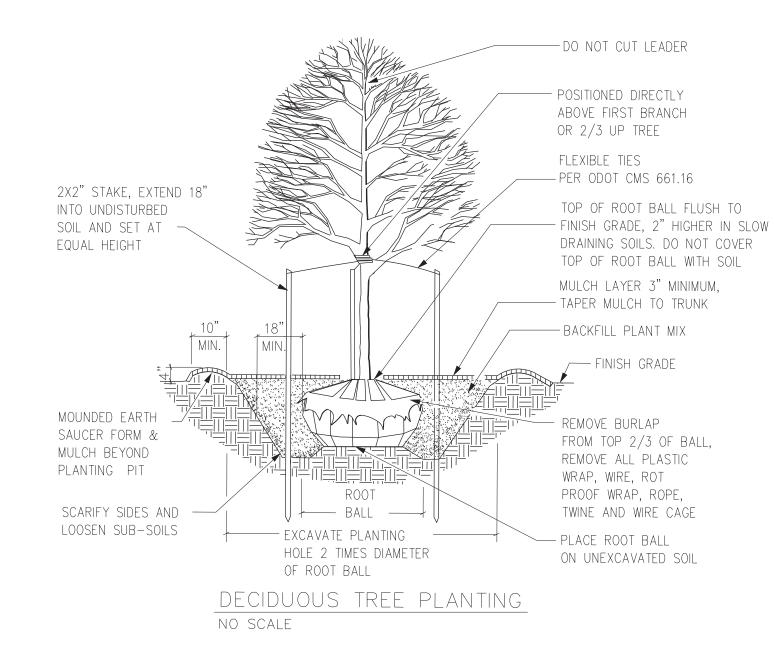
-SET ROOT BALL ON UNEXCAVATED SOIL

- PLANTING MIXTURE

FORM

LANDSCAPE RI	EQUIREMENTS			
VEHICLE USE AREA BUILDING COVERAGE TOTAL	102,683 S.F. 59,300 S.F. 161,983 S.F.			
DAVIDSON RD FRONTAGE	592	L.F.		
LIBRARY WAY FRONTAGE	362	L.F.		
SOUTHERN PROPERTY LINE	549	L.F.		
EASTERN PROPERTY LINE	370	L.F.		
ZONING CODE SECTION	REQUIRED	PROVIDED		
B2.04c - TREES ALONG DAVIDSON	48	48 PROPOSED 2 EXISTING		
B2.04h - INTERIOR LANDSCAPED AREA	5,135 S.F.	10,329 S.F.		
B2.04i — MIN. TREES	33	27 EVERGREENS 88 DECIDUOUS		
B2.04i — MIN. TOTAL DBH	39 DBH	211 DBH		
12.05 (b) PERIMETER TREES @ 2 TREES PER 100 FT				
LIBRARY WAY	8 LARGE OR MEDIUM TREES	8 (L,M)		
SOUTHERN PROPERTY	11 SMALL	11 (L,M,S)		
EASTERN PROPOERTY	8 SMALL	8 (L,M,S)		
12.05 (b) PERIMETER SHRUBS @ 30 SHRUBS PER 100 FT				
LIBRARY WAY	109 SHRUBS	110		
SOUTHERN PROPERTY	165 SHRUBS	171		
EASTERN PROPERTY	111 SHRUBS	114		
12.05 (c) INTERIOR LANDSCAPING				
SINGLE ROW PARKING	1 MEDIUM OR LARGE TREE 4 SHRUBS OR GRASSES	1 MEDIUM OR LARGE TREE 4 SHRUBS OR GRASSES		
DOUBLE ROW PARKING	2 MEDIUM OR LARGE TREE 8 SHRUBS OR GRASSES	2 MEDIUM OR LARGE TREE 8 SHRUBS OR GRASSES		
EXISTING TREES TO BE REMOVED	38 TF 418			
EXISTING TREES TO REMAIN	2 TR 12 [			





TRILO( SERV CONTINUUM E FACILITY

PROPOSED ( OF CARE I

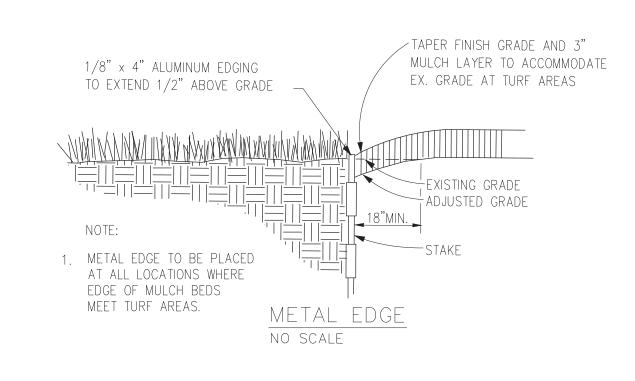
DAVIDSON RD AND BRITTON HILLIARD, OH 43026

PROTECTIVE FENCING SHALL BE ORANGE CONSTRUCTION 12" TRUNK DIA. FENCE OR EQUIV. 24' CRITICAL

CRITICAL ROOT ZONE AREA = 2' FOR EACH 1" OF TREE CALIPER

#### TREE PROTECTION NOTES

- 1. TREE PROTECTION MEASURES SHALL BE INSTALLED PER THIS PLAN SHEET AT THE CRITICAL ROOT ZONE OF TREES TO BE PRESERVED PRIOR TO THE START OF ANY CLEARING, GRADING OR OTHER CONSTRUCTION ACTIVITY.
- 2. NO STORAGE OF ANY KIND IS PERMITTED WITHIN THE TREE PROTECTION ZONE. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL AND BACKFILLED WITH TOPSOIL WITHIN THE SAME DAY.
- 3. ALL VEGETATION THAT IS NOT DESIGNATED ON THE PLANS TO BE REMOVED SHALL BE PROTECTED FROM DAMAGE. TREES THAT ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.



LANDSCAPE

**PRELIMINARY** NOT FOR CONSTRUCTION

MASS SHRUB PLANTING B&B or CONTAINER NO SCALE

REMOVE ALL BURLAP, WIRE CAGE,

2/3 OF ROOT BALL AFTER FIRMLY

STABILIZING LOWER 1/3 OF ROOT

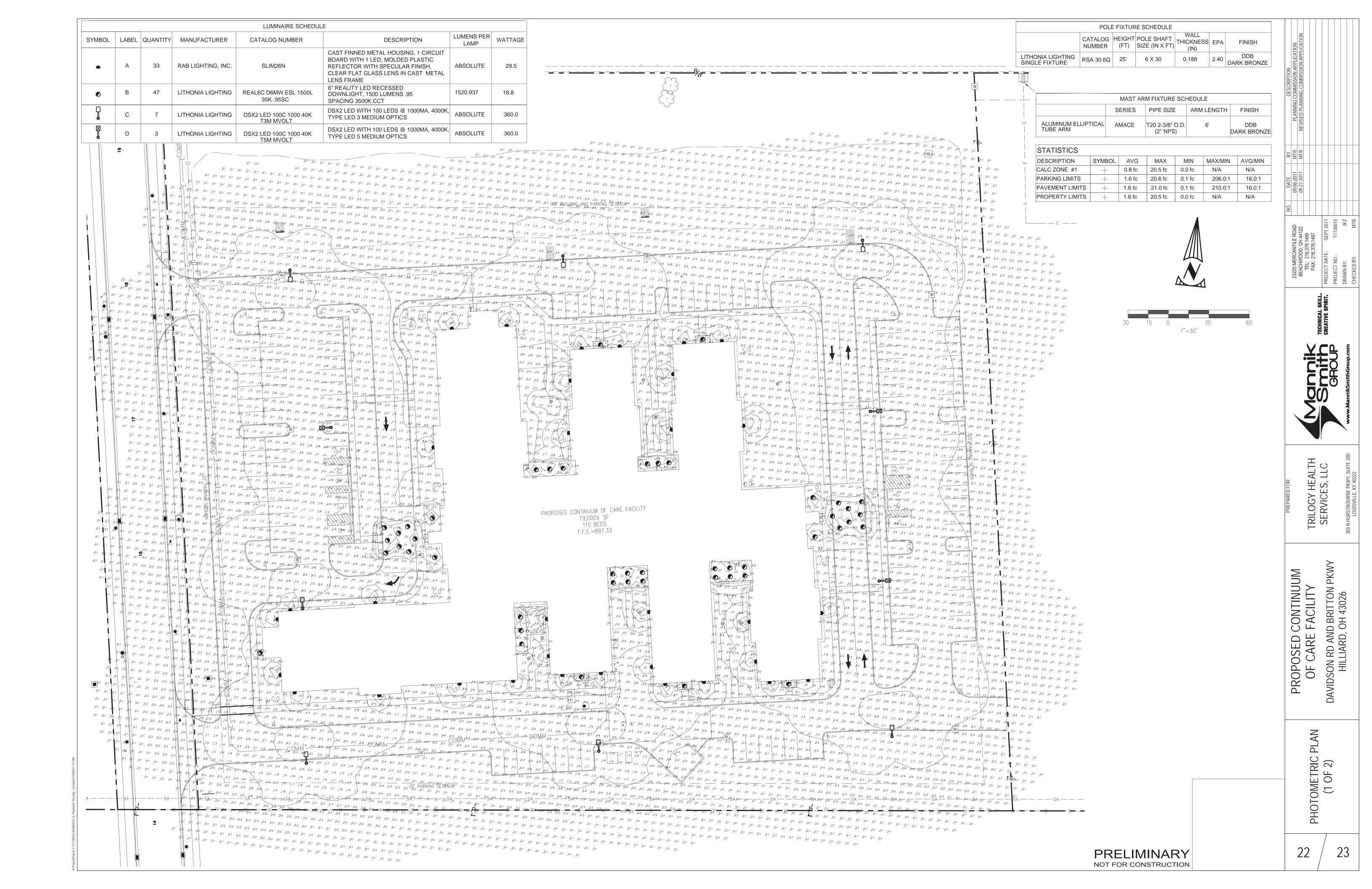
TWINE AND ROPE FROM UPPER

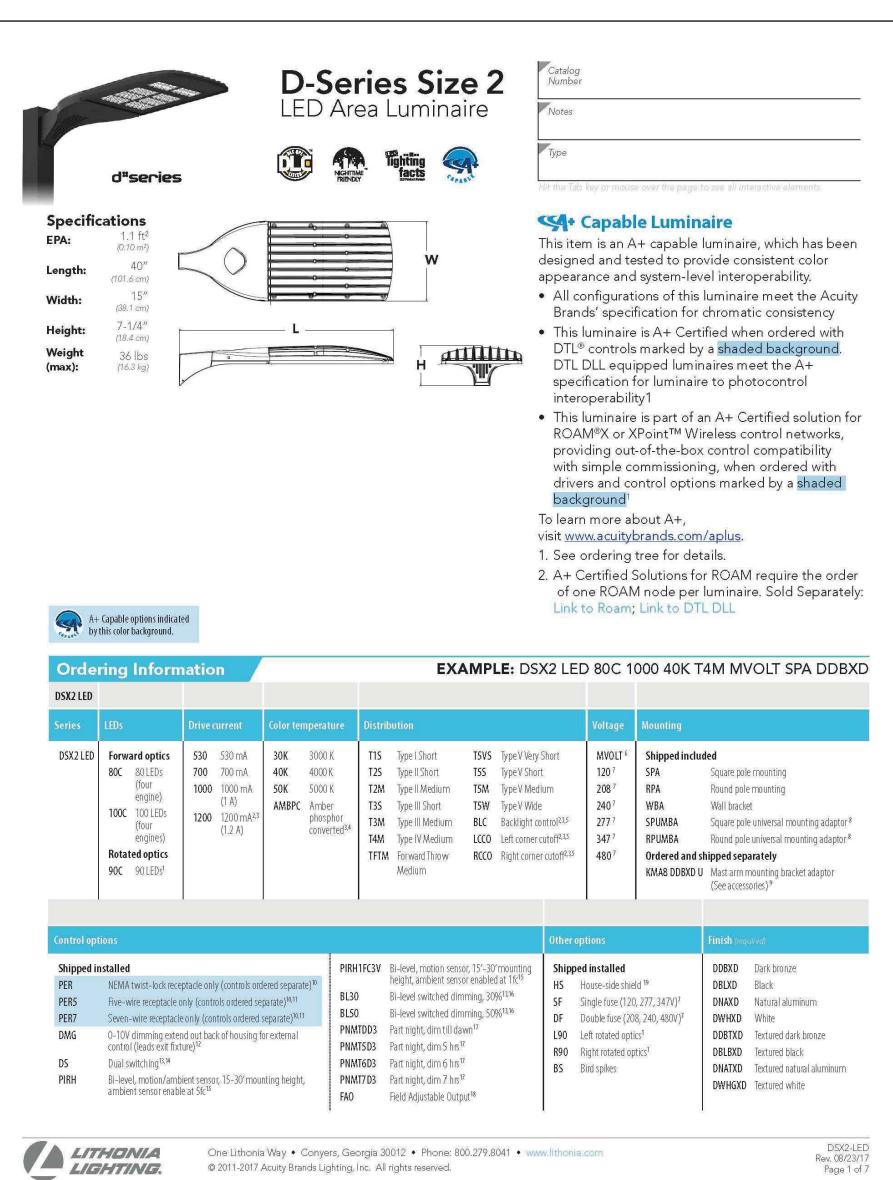
BALL IN PLANTING MIX

PLANTING BED

EDGE TREATMENT, REFER TO PLANS

PLAN







aluminum alloy with T6 temper. The shaft is uniform in cross-section down length of pole with no taper. Available shaft diameters are 4", 4.5", 5", and 6". Pole Top: Options include tenon top, drilled for side mount fixture, tenon with drilling (includes extra

handhole) and open top. Side drilled and open top poles include a removable aluminum top cap secured with three stainless-steel screws. The top cap resists intrusion of moisture or environmental contaminants. Handhole: A non-reinforced handhole with grounding provision is provided near the base. Standard positioning varies with shaft width as follows: 4", 4.5", and 5" shaft, handhole at 12"; 6" shaft, handhole at 18". Positioning the handhole lower than standard may not be possible and requires engineering review; consult Tech Support-Outdoor for further information. All handholes for a pole specified with openings for 4" through 6" shaft width has nominal dimension of 2" x 4" with surface mount overlap design.

Bolt Caps/Base Cover: Pole base plate utilizes cast aluminum bolt caps to coveranchor bolt and nut assembly. Optional two-piece cast aluminum and decorative base covers are available. Spun aluminum one or two-piece covers are also available as an option.

Anchor Base/Bolts: Anchor base is cast from 356 alloy aluminum and is heat treated to a T6 temper after welding. Anchor bolts are manufactured to ASTM F1554 Standards Grade 55, (55 KSI minimum yield strength and tensile strength of 75-95 KSI). Upper portion of anchor bolt is galvanized per ASTM A-153; bolts have an "L" bend on bottom end and are galvanized a minimum of 12" on the threaded end. Each hot-dipped galvanized anchor bolt is furnished with two hex nuts and two flat washers.

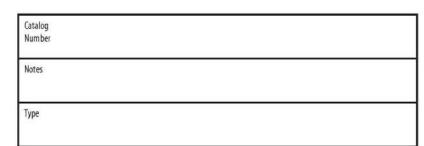
**HARDWARE** — All structural and non-structural fasteners are stainless-steel.

OUTDOOR

FINISH — Painted finish is coated with polyester powder that meets 5A and 5B classifications of ASTM D3359. Standard powder-coat finishes include Dark Bronze, White, Black, Medium Bronze and Natural Aluminum colors. Classic finishes include Sandstone, Charcoal Gray, Tennis Green, Bright Red and Steel Blue colors. Other finishes include Brushed Aluminum, and Anodized Dark Bronze, Anodized Natural Aluminum and Anodized Black. Architectural Colors and Special Finishes are available by quote and include, but are not limited to RAL Colors, Custom Colors and Extended Warranty Finishes. Factory-applied primer paint finish is available for customer field-paint applications.

WARRANTY — 1-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/CustomerResources/Terms and conditions.aspx **NOTE**: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.





**Note:** Actual performance may differ as a result of end-user environment and application.

Specifications subject to change without notice.

RDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. Example: AMACE T20 US4 SA Arm length T20 2-3/8" 0.D. (2" NPS) US2 2' arm length Standard colors US4 4' arm length DDB Dark bronze US6 6' arm length DWH White US8 8' arm length DBL Black US10 10' arm length DNA Natural aluminum SA Satin aluminum Primer finish DPRM Red primer Architectural colors (powder finish) 8

(See next page for dimensions and drawings.)

1 Finish must be specified. Additional colors available; see www.lithonia.com/archcolors or Architectural Colors brochure (Form No. 794.3).

POLE-AMACE OUTDOOR

POLE-RSA

**ELLIPTICAL TUBE ARM** 

TRILO( SERV

DAVIDSON RD AND BRITTON PKWY HILLIARD, OH 43026 PROPOSED CONTINUUM OF CARE FACILITY

PHOTOMETRIC PLAN (2 OF 2)

23

**PRELIMINARY** NOT FOR CONSTRUCTION