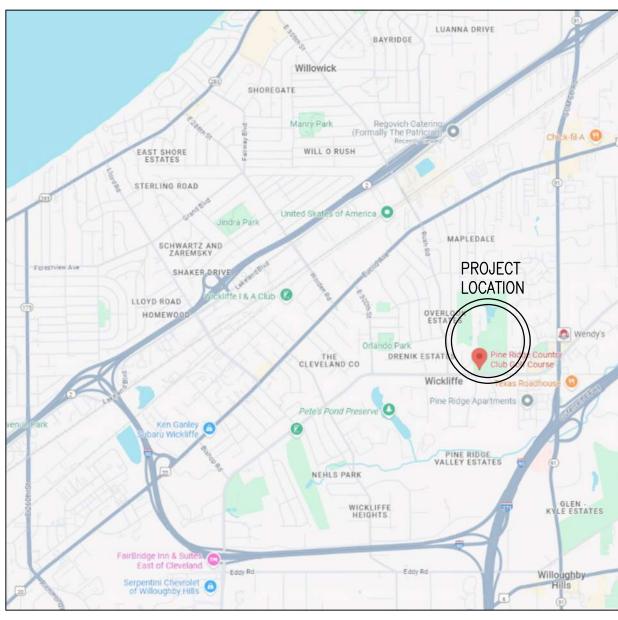


PINE RIDGE COUNTRY CLUB WEDDING VENUE

30601 RIDGE ROAD WICKLIFFE, OH 44092



DEMOLITION PLAN NOTES

- 5. THE CONTRACTOR SHALL CONDUCT OPERATIONS WITH A MINIMUM INTERFERENCE TO PUBLIC OR PRIVATE THOROUGHFARES. MAINTAIN INGRESS EGRESS AND ACCESS AT ALL TIMES. DO NOT CLOSE OR OBSTRUCT ROADWAYS AND SIDEWALKS WITHOUT 6. CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL OF ALL STRUCTURES, PADS, WALLS, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC..., IN A LOCATION APPROVED BY ALL GOVERNING
- AGENCIES. ALL ITEMS REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL THE CONTRACTOR IS REQUIRED TO OBTAIN ALL DEMOLITION RELATED PERMITS, INCLUDING AN EPA NOTICE OF INTENT, IF
- 8. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES OR DEPARTMENTS PRIOR TO REMOVAL OR SHUTOFF OR INSTALLATION OF ANY UTILITIES. THE CONTRACTOR SHALL COORDINATE WORK WITH THE UTILITY COMPANIES AS TO WHICH PORTIONS ARE TO BE PERFORMED BY THE UTILITY COMPANY. 9. CONTRACTOR IS CAUTIONED THAT THE LOCATION AND/ OR ELEVATION OF THE EXISTING UTILITIES AS SHOWN ON THESE
- PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 48 HOURS IN ADVANCE OF ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF THE UTILITIES 10. EXISTING UTILITIES OR STRUCTURES NOT DESIGNATED FOR REMOVAL ARE TO REMAIN. 11. ALL WASTE OR DEBRIS GENERATED AS PART OF SITE DEMOLITION SHALL BE DISPOSED OF OFF SITE AS PER CURRENT
- 12. ALL PROJECT AREAS DESIGNATED TO BE PAVED OR BUILT UPON SHALL BE CLEARED AND GRUBBED AS PER PROJECT 13. ANY FILL MATERIAL SALVAGED FROM GRADING OPERATIONS THAT CAN BE DETERMINED BY AN INDEPENDENT TESTING AGENCY TO BE SUITABLE, SHALL BE USED FOR FILL MATERIAL AS APPROPRIATE. 14. ALL EXISTING LANDSCAPING WITHIN THE PROJECT LIMITS SHALL BE REMOVED, EXCEPT AS SHOWN TO REMAIN. TREES BEING REMOVED SHALL HAVE THEIR STUMPS GROUND.
- 15. CONTRACTOR SHALL MAKE PROVISIONS FOR STORM WATER DURING DEMOLITION PROCESS. 16. ALL STRUCTURES, UTILITIES, ETC.. NOT DESIGNATED FOR REMOVAL SHALL BE PROTECTED BY THE CONTRACTOR DURING 17. DEMOLITION SHALL BE PERFORMED WITH CARE AND DUE DILIGENCE AS TO NOT DISRUPT THE OPERATION OF EXISTING UTILITY SERVICES TO REMAIN. ANY UTILITY DISCOVERED DURING DEMOLITION OR CONSTRUCTION, WHICH IS NOT SHOWN ON THE
- PLANS, SHALL BE REPORTED TO THE DESIGN ENGINEER FOR EVALUATION. 18. CONTRACTOR SHALL PROTECT ALL TREES AND LANDSCAPING NOTED TO REMAIN 19. ALL ITEMS NOTED TO BE SALVAGED ARE TO BE PACKAGED BY THE CONTRACTOR AND TURNED OVER TO THE OWNER FOR
- REUSE. COORDINATE TURNOVER WITH OWNER. 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, RELOCATION, AND MAINTENANCE OF ALL EROSION 21. OWNER SHALL PROVIDE ABATEMENT RELATED TO ASBESTOS, LEAD CONTAINING MATERIALS, MERCURY, ETC.. AS NEEDED PRIOR
- 22. EXISTING PAVEMENT TYPES SHOWN ARE SURFACE CONDITIONS. DIFFERENT PAVEMENT TYPES MAY EXIST BELOW THE SURFACE. THE COST TO COMPLETELY REMOVE UP TO 12 INCHES OF ALL EXISTING PAVEMENT SECTIONS SHALL BE 23. ALL LAWN AREAS REMOVED OR DISTURBED SHALL BE REPLACED BY SEEDING AND MULCHING IN ACCORDANCE WITH ITEM 659 OF ODOT SPECIFICATIONS AND SHALL BE RESEEDED AND MULCHED WHEN REQUESTED IF SATISFACTORY RE-ESTABLISHMENT OF LAWN DOES NOT OCCUR.

MAINTENANCE OF TRAFFIC

- 1. THE CONTRACTOR SHALL MAINTAIN SAFE TRAFFIC CONDITIONS IN ACCORDANCE WITH THE MANUAL OF TRAFFIC CONTROL DEVICES. COORDINATE ALL LANE / ROAD CLOSURES WITH THE LOCAL MUNICIPAL ENGINEER(S). WHENEVER IT IS NECESSARY TO DIVERT TRAFFIC FROM ITS NORMAL CHANNEL INTO ANOTHER CHANNEL, SUCH DIVERSIONS SHALL BE CLEARLY MARKED BY CONES, DRUMS, BARRICADES OR TEMPORARY GUARDRAIL. IF THE MARKERS ARE LEFT IN
- PLACE AT NIGHT, SUITABLE LIGHTS SHALL BE PROVIDED AND MAINTAINED. WHENEVER ONE-WAY TRAFFIC IS ESTABLISHED, AT LEAST TWO FLAGGERS SHALL BE USED.
- THE CONTRACTOR MAY NOT CLOSE THE STREET TO THROUGH TRAFFIC. 5. IF PROPER MAINTENANCE OF TRAFFIC FACILITIES AND/OR PROPER PROVISION FOR TRAFFIC CONTROL IS NOT BEING PROVIDED, THE MUNICIPALITY MAY TAKE NECESSARY STEPS TO CORRECT TRAFFIC MAINTENANCE. THE COST OF SUCH SERVICE WILL BE CHARGED TO THE CONTRACTOR.

PROJECT PARCEL DATA

LAKE METROPARKS BOARD OF PARK COMMISSIONERS 30601 RIDGE ROAD WICKLIFFE, OHIO 44092 PARCEL NUMBER 29-B-005-B-00-036-0 PARCEL AREA 3.60 ACRES PROPOSED DISTURBED AREA 0.33 ACRES

SHEET INDEX

COVER SHEET & DEMOLITION PLAN C101 C102 C103 C200 C201 C300 GRADING PLAN ABBR. SWP3-1 ABBR. SWP3-2

FOUNDATION PLAN & DETAILS

LAND SURVEY NOTES

LAND SURVEY DATA SHOWN ON THE CIVIL PLAN SHEETS HAS BEEN REFERENCED FROM AN EXISTING CONDITIONS FIELD SURVEY PERFORMED BY RICHARD A THOMPSON (#7388) OF POLARIS ENGINEERING & SURVEYING INC. CONTRACT # 23174

<u>CIVIL ENGINEER</u>

ROCKAWAY CIVIL LLC 10191 SPERRY ROAD KIRTLAND, OHIO 44094 JOHN URBANICK, PE 66506 JURBANICK@ROCKAWAYCIVIL.COM

STRUCTURAL ENGINEER

SYNERGY ENGINEERING SERVICES DOUG PERKINS, PE DJPERKINS@SYN-ENG.COM

DEMOLITION PLAN KEY NOTE LEGEND (#)

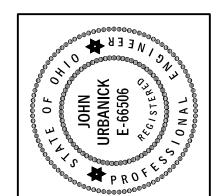
- MAKE FULL DEPTH SAW CUT AT LIMIT OF PAVEMENT / CURB REMOVAL EXISTING STORM PIPING TO BE REMOVED OR ABANDONED IN PLACE
- REMOVE EXISTING WATER VALVE AND REMOVED OR ABANDON PIPING IN PLACE FIELD VERIFY THAT EXISTING WATER LINE IS ABANDONED PRIOR TO WORK. IF WATERLINE IS ACTIVE, NOTIFY ENGINEER AND PROVIDE INFORMATION FOR POSSIBLE

PROJECT GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS INCLUDED ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS.
- ANY DEFECTS IN THE CONSTRUCTION WITHIN THE RIGHT OF WAY INCLUDING MATERIALS OR WORKMANSHIP SHALL BE ACCEPTANCE BY THE MUNICIPAL ENGINEER AT NO ADDITIONAL COST.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO ROAD SURFACES, SIGNS, GUARDRAILS, MAIL/PAPER BOXES, CULVERTS, EASEMENTS OR RIGHT OF WAYS DISTURBED BY CONSTRUCTION OF ANY PART OF THIS IMPROVEMENT. ALL DAMAGES SHALL BE RESTORED AT NO COST TO THE MUNICIPALITY TO THE ORIGINAL CONDITION. THE MUNICIPAL ENGINEER IN WRITING SHALL ACCEPT APPROVAL OF RESTORATION.
- 4. THE CONTRACTOR SHALL NOT COMMENCE WITH ANY FORM OF CONSTRUCTION WITHOUT NOTIFYING THE OFFICE OF THE MUNICIPAL ENGINEER AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO STARTING CONSTRUCTION.
- 5. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS. 6. THE CONTRACTOR SHALL PROVIDE A TWENTY-FOUR (24) HOUR, SEVEN DAYS A WEEK EMERGENCY CONTACT LIST. THE CONTACT LIST SHALL INCLUDE CONTACT NAMES AND PHONE NUMBERS OF INDIVIDUALS WHO CAN BE REACHED AT ANY TIME.
- NO CONSTRUCTION SHALL OCCUR BEFORE CONTACT LIST IS PROVIDED TO THE MUNICIPALITY. . ALL LAWN AREAS REMOVED OR DISTURBED SHALL BE REPLACED BY SEEDING AND MULCHING IN ACCORDANCE WITH ITEM 659 OF ODOT SPECIFICATIONS AND SHALL BE RESEEDED AND MULCHED WHEN REQUESTED IF SATISFACTORY RE-ESTABLISHMENT
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE EXISTING PUBLIC WATER, STORM AND SANITARY SYSTEM RESULTING FROM NON-CONFORMANCE WITH THE APPLICABLE STANDARDS OR THROUGH GENERAL NEGLIGENCE. 9. ALL VOIDS CREATED FROM BORING OF UTILITY LINES SHALL BE BACKFILLED WITH SAND OR GROUT. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES AND SHALL BACKFILL AND GRADE EXCAVATED AREAS TO ELIMINATE PONDING ON
- 10. THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY INCLUDING A DUST-FREE STREET SWEEPING DEVICE OR AS DIRECTED BY THE MUNICIPAL ENGINEER TO MAINTAIN ALL ROADWAYS BEING USED FOR ACCESS TO
- THE CONSTRUCTION SITE 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY EROSION CONTROL METHODS IN ACCORDANCE WITH CURRENT COUNTY AND STATE REQUIREMENTS AND AS REQUIRED BY THE MUNICIPAL ENGINEER. EROSION CONTROL MEASURES MUST BE IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CLEAN ALL EXISTING STREETS OF MUD

AND DIRT DURING THE CONSTRUCTION PHASE AS NEEDED OR DIRECTED BY THE MUNICIPAL ENGINEER.

- 12. AT ALL STORM SEWER, SANITARY SEWER, AND/OR WATERMAIN INTERSECTIONS HAVING LESS THAN EIGHTEEN (18) INCH VERTICAL SEPARATION, ENCASE THE LOWER AND MONOLITHICALLY CRADLE THE UPPER PIPE IN 3000 PSI CONCRETE PER THE REQUIREMENTS OF THE UNIFORM STANDARDS CONCRETE ENCASEMENT DETAIL. 13. THE LINE AND GRADE OF SEWER MAINS SHALL BE CONTROLLED DURING SEWER CONSTRUCTION BY USE OF AN APPROVED
- LASER DEVICE. THE LINE AND GRADE OF THE LASER SHALL BE "CHECKED" FROM LINE AND GRADE STAKES AT A MAXIMUM OF FIFTY FOOT (50) INTERVALS. 14. WHEREVER UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED THAT ARE NOT INDICATED ON THE PLANS, THE WORK SHALL BE
- DISCONTINUED UNTIL THE GEOTECHNICAL ENGINEER APPROVES THE METHOD AND MATERIAL TO BE INCORPORATED INTO THE
- 15. ALL UNFORESEEN UNDERGROUND OR ABOVE GROUND UTILITIES OR CONDITIONS THAT ARE DISCOVERED IN THE PROJECT AREA DURING CONSTRUCTION SHALL BE REPORTED BY THE CONTRACTOR TO THE DESIGN ENGINEER IMMEDIATELY FOR EVALUATION / POSSIBLE REDESIGN. THE FIELD DATA SHALL INCLUDE MATERIAL TYPE, SIZE, CONDITION, LOCATION, DEPTH / ELEVATION,



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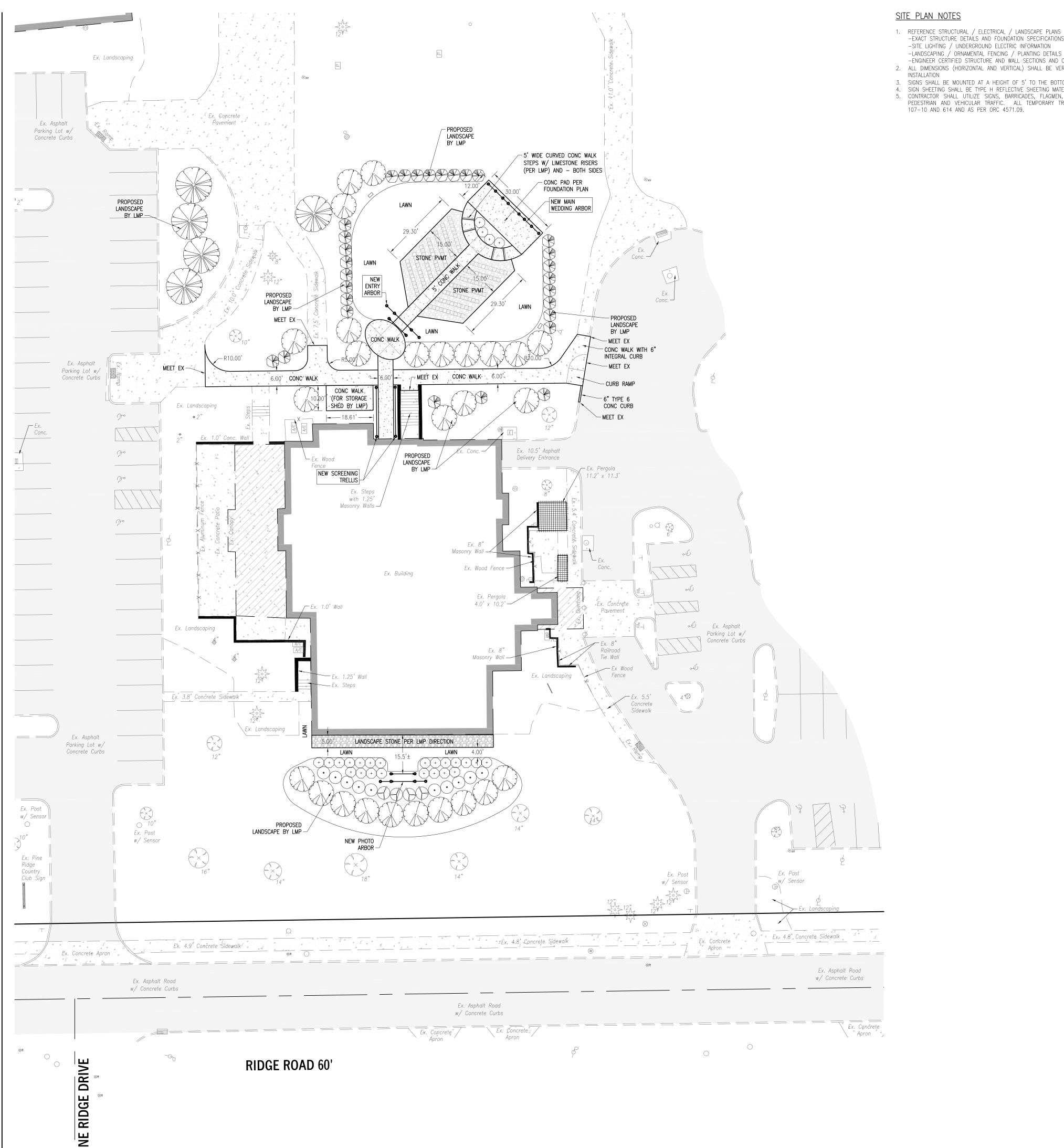
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SITE PLAN NOTES

- 1. REFERENCE STRUCTURAL / ELECTRICAL / LANDSCAPE PLANS FOR THE FOLLOWING: -EXACT STRUCTURE DETAILS AND FOUNDATION SPECIFICATIONS AND DIMENSIONS -SITE LIGHTING / UNDERGROUND ELECTRIC INFORMATION
- -ENGINEER CERTIFIED STRUCTURE AND WALL SECTIONS AND CONSTRUCTION DETAILS 2. ALL DIMENSIONS (HORIZONTAL AND VERTICAL) SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION AND / OR
- SIGNS SHALL BE MOUNTED AT A HEIGHT OF 5' TO THE BOTTOM OF THE SIGN, UNLESS OTHERWISE NOTED.
- 4. SIGN SHEETING SHALL BE TYPE H REFLECTIVE SHEETING MATERIAL.
 5. CONTRACTOR SHALL UTILIZE SIGNS, BARRICADES, FLAGMEN, ETC... DURING CONSTRUCTION TO ENSURE THE SAFETY OF
- PEDESTRIAN AND VEHICULAR TRAFFIC. ALL TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH ODOT ITEM 107-10 AND 614 AND AS PER ORC 4571.09.

PAVEMENT DRIVE APRONS, SIDEWALK, CURBS AND CURB RAMP REQUIREMENTS

SIDEWALKS AND/OR CURB RAMPS SHALL CONFORM TO ODOT SPECIFICATIONS IF NOT SPECIFIED HEREIN. ALL PAVEMENT DRIVES, SIDEWALKS AND CURB RAMP REPLACEMENTS SHALL CONFORM TO THE GRADE OF THE EXISTING PAVEMENT DRIVE, SIDEWALK AND/OR CURB RAMP.

1. ALL CONCRETE SHALL BE CLASS "C" PER ODOT 499 AND PROPERLY CONSOLIDATED (NO SLAG).

. THE SCHEDULING FOR WORK SHALL BE DISCUSSED WITH EACH PROPERTY OWNER AFFECTED PRIOR TO COMMENCING THE CONSTRUCTION / REPLACEMENT OPERATION. EXCAVATION IN TRAFFIC AREAS SHALL NOT BE LEFT OPEN OVERNIGHT. ALL DRIVE APRON CONSTRUCTION SHALL FOLLOW A SCHEDULE THAT ALLOWS ACCESS TO AND FROM RESIDENCE, BUSINESS, ETC. AT ALL TIMES. THE DISRUPTION OF ACCESS TO DRIVEWAYS DUE TO THIS WORK SHALL BE KEPT TO A MINIMUM.

. THE CONTRACTOR MUST PROVIDE ADEQUATE SIGNS, MARKERS AND BARRICADES TO PROTECT PEDESTRIAN TRAFFIC, VEHICULAR TRAFFIC AND CONSTRUCTION PERSONNEL DURING THE PROGRESS OF THIS WORK. ADDITIONAL SIGNS INDICATING ENTRANCES FOR BUSINESSES IN A CONSTRUCTION ZONE ARE REQUIRED AS DIRECTED BY THE MUNICIPAL ENGINEER.

PAVEMENT DRIVE APRONS: 4. ALL PAVEMENT DRIVE APRONS SHALL HAVE A MINIMUM THICKNESS OF SIX (6) INCHES FOR RESIDENTIAL DRIVEWAYS AND EIGHT (8) INCHES FOR ALL OTHER DRIVEWAYS. REFER TO DETAILS.

- 5. ALL SIDEWALKS SHALL HAVE A MINIMUM THICKNESS OF FOUR (4) INCHES EXCEPT WITHIN THE LIMITS OF THE DRIVEWAYS, WHERE THE MINIMUM THICKNESS SHALL BE SIX (6) INCHES FOR ONE OR TWO FAMILY RESIDENTIAL DRIVEWAYS AND EIGHT (8) INCHES FOR ALL OTHER DRIVEWAYS.
- 6. ONE-HALF (1/2) INCH EXPANSION JOINTS SHALL BE PLACED AT INTERVALS NOT TO EXCEED FIFTY (50) FEET. EXPANSION JOINTS SHALL BE SEALED WITH 1/2" THICK SELF LEVELING URETHANE CHALK, LIMESTONE GRAY IN COLOR. ALL CONCRETE SIDEWALK AND/OR CURB SHALL BE OF MONOLITHIC CONSTRUCTION. ALL SIDEWALKS SHALL HAVE A FOUR (4) INCH MINIMUM SUBBASE, ODÓT ITEM 304, COMPACTED TO 95% COMPACTION.
- R/W CURB RAMPS:

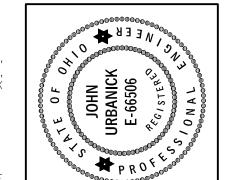
 7. CURB RAMPS SHALL BE PLACED AS SHOWN ON THE PLANS. ALL SIDEWALKS SHALL CONNECT TO THE PAVEMENT OR CURB AT INTERSECTIONS WITH WHEELCHAIR RAMPS AND ONE-HALF (1/2) INCH EXPANSION JOINTS BETWEEN THE WALK AND CURB. EXPANSION JOINTS SHALL BE SEALED WITH 1/2" THICK SELF LEVELING URETHANE CHALK, LIMESTONE GRAY IN COLOR. ALL CURB RAMPS SHALL MEET THE CURRENT ADA REQUIREMENTS. REFER TO DETAILS.
- 8. WHERE IT IS NECESSARY TO DISTURB EXISTING PAVEMENT DRIVES, CURB RAMPS OR SIDEWALKS THE CONCRETE SHALL BE SAW CUT IN NEAT STRAIGHT LINES AS DIRECTED BY ENGINEER / MUNICIPALITY. THE DEPTH OF SAW CUT SHALL BE FULL DEPTH. WHERE IT IS NECESSARY TO DISTURB EXISTING PAVEMENT DRIVES, CURBS AND/OR WALKS THE ASPHALT CONCRETE SHALL BE LINE CUT WITH STRAIGHT VERTICAL EDGES. ALL CUT BITUMINOUS SURFACES SHALL BE SEALED WITH A 4" WIDE RUBBERIZED JOINT SEALER USING A SQUEEGEE.
- 9. CONCRETE SHALL BE REMOVED IN SECTIONS. SAW CUT LINES ARE TO TAKE PLACE AT EXISTING JOINTS.

CONSTRUCTION OF IMPROVEMENT.

- CURING COMPOUND:

 10. AN APPROVED SEALER SHALL SEAL ALL EXPOSED CONCRETE APPROPRIATE TO APPLICATION ON SURFACE OF CONCRETE. SEE CURRENT ODOT SPECIFICATIONS FOR APPLICATION METHODS.
- 11. THE CONTRACTOR SHALL ADJUST ANY "SURFACE STRUCTURE" IN THE AREA OF SIDEWALK AND/OR PAVEMENT DRIVE TO GRADE. THE CONTRACTOR SHALL FURNISH NECESSARY PARTS AND REPAIR ALL "SURFACE STRUCTURES" DAMAGED BY

GENERAL REQUIREMENTS:
THE FOLLOWING REQUIREMENTS APPLY TO ALL PAVEMENT DRIVE APRONS, SIDEWALKS AND CURB RAMPS. ALL PAVEMENT DRIVES,



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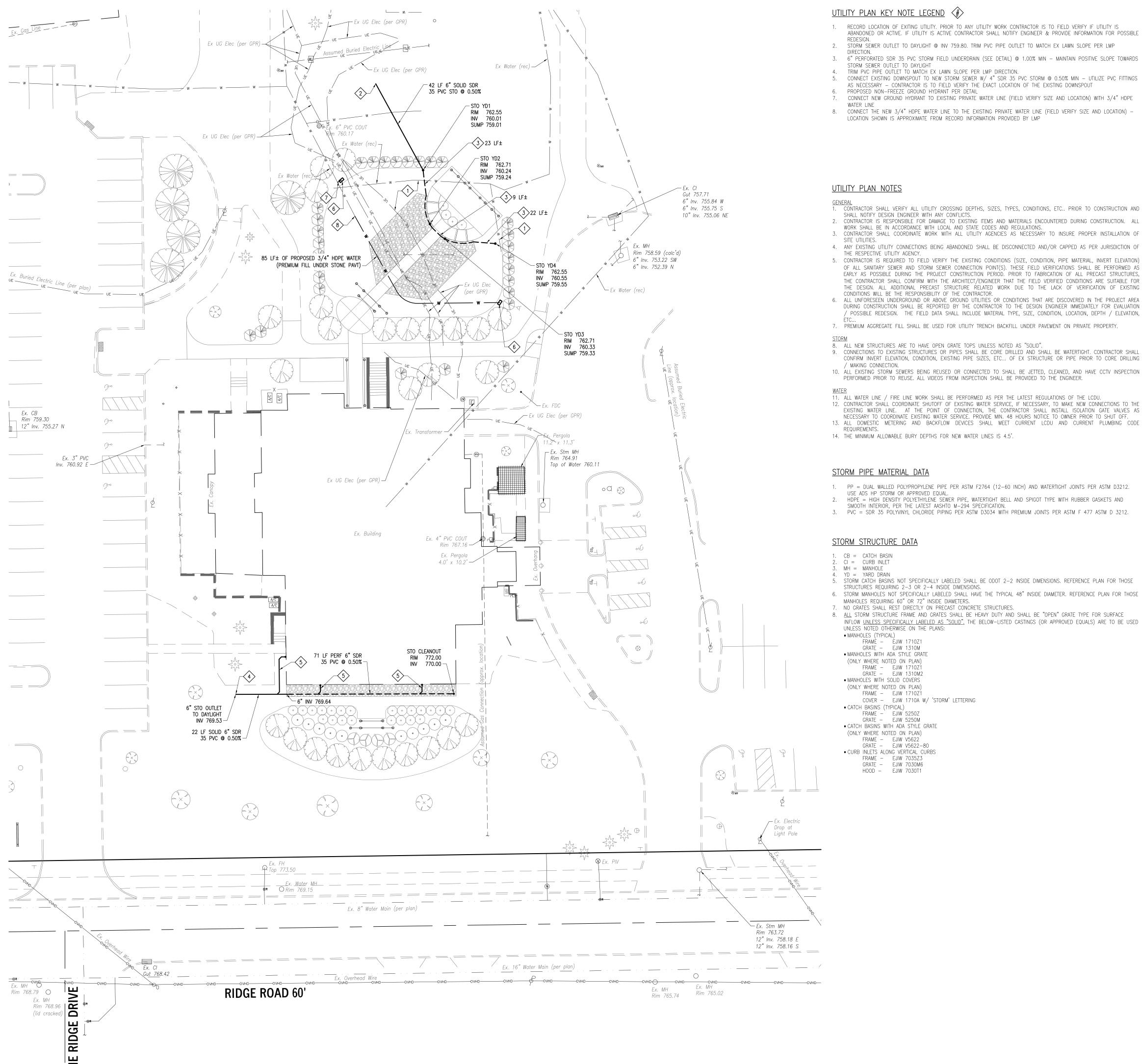


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SITE PLAN Sheet Name



UTILITY PLAN KEY NOTE LEGEND <#>

- 1. RECORD LOCATION OF EXITING UTILITY. PRIOR TO ANY UTILITY WORK CONTRACTOR IS TO FIELD VERIFY IF UTILITY IS ABANDONED OR ACTIVE. IF UTILITY IS ACTIVE CONTRACTOR SHALL NOTIFY ENGINEER & PROVIDE INFORMATION FOR POSSIBLE
- 2. STORM SEWER OUTLET TO DAYLIGHT @ INV 759.80. TRIM PVC PIPE OUTLET TO MATCH EX LAWN SLOPE PER LMP DIRECTION
- 3. 6" PERFORATED SDR 35 PVC STORM FIELD UNDERDRAIN (SEE DETAIL) @ 1.00% MIN MAINTAIN POSITIVE SLOPE TOWARDS STORM SEWER OUTLET TO DAYLIGHT
- 4. TRIM PVC PIPE OUTLET TO MATCH EX LAWN SLOPE PER LMP DIRECTION. 5. CONNECT EXISTING DOWNSPOUT TO NEW STORM SEWER W/ 4" SDR 35 PVC STORM @ 0.50% MIN - UTILIZE PVC FITTINGS
- AS NECESSARY CONTRACTOR IS TO FIELD VERIFY THE EXACT LOCATION OF THE EXISTING DOWNSPOUT
- PROPOSED NON-FREEZE GROUND HYDRANT PER DETAIL CONNECT NEW GROUND HYDRANT TO EXISTING PRIVATE WATER LINE (FIELD VERIFY SIZE AND LOCATION) WITH 3/4" HDPE
- 8. CONNECT THE NEW 3/4" HDPE WATER LINE TO THE EXISTING PRIVATE WATER LINE (FIELD VERIFY SIZE AND LOCATION) -LOCATION SHOWN IS APPROXIMATE FROM RECORD INFORMATION PROVIDED BY LMP

- CONTRACTOR SHALL VERIFY ALL UTILITY CROSSING DEPTHS, SIZES, TYPES, CONDITIONS, ETC.. PRIOR TO CONSTRUCTION AND SHALL NOTIFY DESIGN ENGINEER WITH ANY CONFLICTS.
- 2. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING ITEMS AND MATERIALS ENCOUNTERED DURING CONSTRUCTION. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL AND STATE CODES AND REGULATIONS. 3. CONTRACTOR SHALL COORDINATE WORK WITH ALL UTILITY AGENCIES AS NECESSARY TO INSURE PROPER INSTALLATION OF SITE UTILITIES.
- 4. ANY EXISTING UTILITY CONNECTIONS BEING ABANDONED SHALL BE DISCONNECTED AND/OR CAPPED AS PER JURISDICTION OF THE RESPECTIVE UTILITY AGENCY.
- OF ALL SANITARY SEWER AND STORM SEWER CONNECTION POINT(S). THESE FIELD VERIFICATIONS SHALL BE PERFORMED AS EARLY AS POSSIBLE DURING THE PROJECT CONSTRUCTION PERIOD. PRIOR TO FABRICATION OF ALL PRECAST STRUCTURES, THE CONTRACTOR SHALL CONFIRM WITH THE ARCHITECT/ENGINEER THAT THE FIELD VERIFIED CONDITIONS ARE SUITABLE FOR THE DESIGN. ALL ADDITIONAL PRECAST STRUCTURE RELATED WORK DUE TO THE LACK OF VERIFICATION OF EXISTING CONDITIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. 6. ALL UNFORESEEN UNDERGROUND OR ABOVE GROUND UTILITIES OR CONDITIONS THAT ARE DISCOVERED IN THE PROJECT AREA
- DURING CONSTRUCTION SHALL BE REPORTED BY THE CONTRACTOR TO THE DESIGN ENGINEER IMMEDIATELY FOR EVALUATION / POSSIBLE REDESIGN. THE FIELD DATA SHALL INCLUDE MATERIAL TYPE, SIZE, CONDITION, LOCATION, DEPTH / ELEVATION,
- 7. PREMIUM AGGREGATE FILL SHALL BE USED FOR UTILITY TRENCH BACKFILL UNDER PAVEMENT ON PRIVATE PROPERTY.

8. ALL NEW STRUCTURES ARE TO HAVE OPEN GRATE TOPS UNLESS NOTED AS "SOLID".

- 9. CONNECTIONS TO EXISTING STRUCTURES OR PIPES SHALL BE CORE DRILLED AND SHALL BE WATERTIGHT. CONTRACTOR SHALL CONFIRM INVERT ELEVATION, CONDITION, EXISTING PIPE SIZES, ETC... OF EX STRUCTURE OR PIPE PRIOR TO CORE DRILLING
- 10. ALL EXISTING STORM SEWERS BEING REUSED OR CONNECTED TO SHALL BE JETTED, CLEANED, AND HAVE CCTV INSPECTION PERFORMED PRIOR TO REUSE. ALL VIDEOS FROM INSPECTION SHALL BE PROVIDED TO THE ENGINEER.

11. ALL WATER LINE / FIRE LINE WORK SHALL BE PERFORMED AS PER THE LATEST REGULATIONS OF THE LCDU. 12. CONTRACTOR SHALL COORDINATE SHUTOFF OF EXISTING WATER SERVICE, IF NECESSARY, TO MAKE NEW CONNECTIONS TO THE EXISTING WATER LINE. AT THE POINT OF CONNECTION, THE CONTRACTOR SHALL INSTALL ISOLATION GATE VALVES AS NECESSARY TO COORDINATE EXISTING WATER SERVICE. PROVIDE MIN. 48 HOURS NOTICE TO OWNER PRIOR TO SHUT OFF. 13. ALL DOMESTIC METERING AND BACKFLOW DEVICES SHALL MEET CURRENT LCDU AND CURRENT PLUMBING CODE

14. THE MINIMUM ALLOWABLE BURY DEPTHS FOR NEW WATER LINES IS 4.5'.

STORM PIPE MATERIAL DATA

- 1. PP = DUAL WALLED POLYPROPYLENE PIPE PER ASTM F2764 (12-60 INCH) AND WATERTIGHT JOINTS PER ASTM D3212. USE ADS HP STORM OR APPROVED EQUAL. 2. HDPE = HIGH DENSITY POLYETHYLENE SEWER PIPE, WATERTIGHT BELL AND SPIGOT TYPE WITH RUBBER GASKETS AND
- SMOOTH INTERIOR, PER THE LATEST AASHTO M-294 SPECIFICATION. 3. PVC = SDR 35 POLYVINYL CHLORIDE PIPING PER ASTM D3034 WITH PREMIUM JOINTS PER ASTM F 477 ASTM D 3212.

STORM STRUCTURE DATA

- 1. CB = CATCH BASIN
- 2. CI = CURB INLET
- STORM CATCH BASINS NOT SPECIFICALLY LABELED SHALL BE ODOT 2-2 INSIDE DIMENSIONS. REFERENCE PLAN FOR THOSE STRUCTURES REQUIRING 2-3 OR 2-4 INSIDE DIMENSIONS. 6. STORM MANHOLES NOT SPECIFICALLY LABELED SHALL HAVE THE TYPICAL 48" INSIDE DIAMETER. REFERENCE PLAN FOR THOSE MANHOLES REQUIRING 60" OR 72" INSIDE DIAMETERS.
- 7. NO GRATES SHALL REST DIRECTLY ON PRECAST CONCRETE STRUCTURES. 8. <u>ALL</u> STORM STRUCTURE FRAME AND GRATES SHALL BE HEAVY DUTY AND SHALL BE "OPEN" GRATE TYPE FOR SURFACE
- INFLOW <u>UNLESS SPECIFICALLY LABELED AS "SOLID".</u> THE BELOW-LISTED CASTINGS (OR APPROVED EQUALS) ARE TO BE USED UNLESS NOTED OTHERWISE ON THE PLANS: MANHOLES (TYPICAL)
- FRAMÈ ÉJIW 1710Z1 GRATE - EJIW 1310M • MANHOLES WITH ADA STYLE GRATE (ONLY WHERE NOTED ON PLAN)
- FRAME EJIW 1710Z1 GRATE - EJIW 1310M2 • MANHOLES WITH SOLID COVERS
- (ONLY WHERE NOTED ON PLAN) FRAME - EJIW 1710Z1
- COVER EJIW 1710A W/ 'STORM' LETTERING CATCH BASINS (TYPICAL)
- FRAME EJIW 5250Z
- GRATE EJIW 5250M • CATCH BASINS WITH ADA STYLE GRATE
- (ONLY WHERE NOTED ON PLAN) FRAME - EJIW V5622 GRATE - EJIW V5622-80
- CURB INLETS ALONG VERTICAL CURBS FRAME – EJIW 7035Z3
 - GRATE EJIW 7030M6 HOOD - EJIW 7030T1

TRENCH EXCAVATION, BOTTOM PREPARATION AND BACKFILLING

GENERAL REQUIREMENTS:
ALL REQUIREMENTS FOR TRENCH EXCAVATION, BOTTOM PREPARATION AND BACKFILLING SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND DETAILS. NO BACKFILL MATERIAL SHALL BE FROZEN.

- 1. IF MATERIAL OTHER THAN ODOT ITEM 304 MATERIAL IS PROPOSED FOR USE AS TRENCH FILL WITHIN THE RIGHT-OF-WAY, A WRITTEN REQUEST MUST BE SUBMITTED TO THE MUNICIPAL ENGINEER. THE MATERIAL IS SUBJECT TO THE FOLLOWING
- (A) PROCTORS MUST BE CONDUCTED ON ALL FILL MATERIALS AND PLANNED COMPACTION METHODS SUBMITTED TO THIS OFFICE PRIOR TO ANY FILLING OPERATIONS BEING PERMITTED.
- (B) NEW PROCTORS MUST BE OBTAINED AS OFTEN AS THE SOIL MATERIAL CHANGES. (C) NO PROCTOR'S FROM PREVIOUS YEAR'S CONSTRUCTION WILL BE ACCEPTED.
- (D) SLAG IS NOT PERMITTED. 2. ALL CONDUITS SHALL BE INSTALLED ON A FIRM BED FOR ITS FULL LENGTH UNLESS OTHERWISE SPECIFIED.

- 3. WHERE BACKFILLING IS BEING PERFORMED, THE FOLLOWING SHALL CONFORM TO THE FOLLOWING LIMITS: (A) INSTALLATION UNDER PAVEMENT AND/OR WITHIN 45' ZONE OF INFLUENCE LINE OF PAVEMENT EDGE SHALL BE INSTALLED IN ACCORDANCE WITH ODOT ITEM 304 BACKFILL. THE ENTIRE TRENCH SHALL BE FILLED IN LAYERS NOT TO EXCEED EIGHT (8) INCHES IN THICKNESS AND COMPACTED WITH MECHANICAL TAMPERS AT THE SPECIFIED MOISTURE CONTENT UNTIL DRY DENSITY IS NOT LESS THAN 98% OF THE STANDARD PROCTOR. SLAG MATERIAL IS
- (B) WITHIN THE RIGHT-OF-WAY (R/W) BUT NOT UNDER PAVEMENT OR NOT WITHIN 45' ZONE OF INFLUENCE LINE OF PAVEMENT EDGE, SUITABLE BACKFILL MATERIAL SHALL BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR, AT THE SPECIFIED MOISTURE CONTENT. THE ENTIRE TRENCH SHALL BE FILLED IN LAYERS NOT TO EXCEED EIGHT (8) INCHES WITH A MECHANICAL TAMPER.

- 4. WIDTHS OF TRENCHES SHALL BE HELD TO A MINIMUM TO ACCOMMODATE THE PIPE AND APPURTENANCES. NO SLAG IS ACCEPTABLE. THE TRENCH WIDTH SHALL BE MEASURED AT THE TOP OF THE PIPE BARREL AND SHALL CONFORM TO THE FOLLOWING LIMITS:
- (A) ALL PIPE HAVING A DIAMETER LESS THAN TWENTY-FOUR (24) INCHES SHALL HAVE A MINIMUM WIDTH OF NINE (9)
- INCHES MEASURED FROM OUTSIDE OF PIPE BARREL TO TRENCH WALL. (B) ALL PIPE HAVING A DIAMETER GREATER THAN TWENTY-FOUR (24) INCHES BUT LESS THAN SIXTY-SIX (66) INCHES
- SHALL HAVE A MINIMUM WIDTH OF TWELVE (12) INCHES MEASURED FROM OUTSIDE OF PIPE BARREL TO TRENCH WALL. (C) ALL PIPE HAVING A DIAMETER GREATER THAN SIXTY-SIX (66) INCHES SHALL HAVE A MINIMUM WIDTH OF FIFTEEN (15) INCHES MEASURED FROM OUTSIDE OF PIPE BARREL TO TRENCH WALL.

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT ANY CAVING OR SETTLING OF EXCAVATION OR TRENCH WALLS WHICH COULD ENDANGER THE SAFETY OF ANY PERSON ENGAGED IN THE WORK OR IN ANY WAY DAMAGE THE UNDERGROUND INSTALLATIONS OF ADJACENT UTILITIES OR PROPERTY; OR DIMINISH THE TRENCH WIDTH NECESSARY FOR THE PROPER CONSTRUCTION OF THE UNDERGROUND INSTALLATION OR OTHERWISE INJURE OR DELAY THE WORK. THE TYPE AND AMOUNT OF SUCH PROTECTION, SUCH AS TRENCH BOXES, SHEETING, SHORING, OR BRACING SHALL BE CONSISTENT WITH THE DEPTH AND WIDTH OF EXCAVATION, THE COMPOSITION AND WATER CONTENT OF THE SOIL, THE PROXIMITY OF STRUCTURES OR OTHER UTILITIES, THE VIBRATION FROM EQUIPMENT AND THE SPOIL PLACEMENT SHALL BE IN ACCORDANCE WITH THE LATEST OSHA REGULATIONS.

6. IN ORDER TO REDUCE GROUND WATER SEEPAGE AND PROVIDE A STABLE TRENCH BOTTOM IT MAY BE NECESSARY TO DEWATER PRIOR TO EXCAVATION OF THE SEWER TRENCH AND/OR PROVIDE TEMPORARY SUMPS.

FOUNDATION MATERIAL BELOW THE PIPE AND SIX (6) INCHES OF SUBBEDDING SHALL BE SUITABLE MATERIAL THAT PREVENTS

PIPE FROM DEFLECTION DUE TO SETTLEMENT. IF, IN THE ENGINEER'S OPINION, THE MATERIAL FORMING THE TRENCH BOTTOM IS NOT SUITABLE FOR A SOLID FOUNDATION, FURTHER DEPTH SHALL BE EXCAVATED AND THE SAME FILLED WITH MATERIAL AND THICKNESS SPECIFIED BY THE ENGINEER.

AFTER PREPARATION OF THE TRENCH BOTTOM, BEDDING MATERIAL SHALL BE PLACED BELOW PIPE. BEDDING MATERIAL

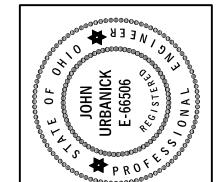
SHALL BE #57 LIMESTONE WITH A MINIMUM THICKNESS OF SIX (6) INCHES AND SPREAD THE FULL WIDTH OF THE TRENCH

BOTTOM. BEDDING MATERIAL SHALL NOT HAVE STANDING WATER AND BE FREE OF DEBRIS, ALL CONDUITS SHALL BE INSTALLED ON A FIRM BED FOR ITS FULL LENGTH..

9. ALL TRENCH EXCAVATION SHALL BE BACKFILLED IMMEDIATELY AFTER PIPE IS PLACED. AGGREGATE MATERIAL, #57 LIMESTONE, THOROUGHLY COMPACTED AND INSTALLED AS PER ASTM D-2321 SHALL PROTECT PIPE ACCORDING TO SPECIFICATIONS HEREIN. FLEXIBLE PIPE SHALL HAVE A MINIMUM COVERAGE OF TWELVE (12) INCHES OVER OUTSIDE PIPE BARREL. RIGID PIPE SHALL HAVE A MINIMUM COVERAGE OF SIX (6) INCHES OVER OUTSIDE PIPE BARREL.

UNDERGROUND UTILITY CONSTRUCTION REQUIREMENTS

- 1. UTILITIES INCLUDING GAS PIPES, TELEPHONE CABLES AND ELECTRICAL POWER AND STREET LIGHTING CIRCUITS ARE RECOMMENDED TO BE UNDERGROUND. ALL TRENCH BACKFILL IN PAVEMENT AREAS SHALL BE ODOT ITEM #304 AGGREGATE BASE COMPACTED BY VIBRATORY OR MECHANICAL TAMPING IN EIGHT (8) INCH LAYERS. ALL WIRING AND CABLES NOT CONTAINED WITHIN CONDUIT AND DIRECT BURIED, SHALL HAVE THEIR LOCATIONS MARKED WITH TECTO-TAPE OR FACSIMILE TWELVE (12) INCHES ABOVE SUCH DIRECT BURIED WIRING OR CABLE. REFER TO TRENCH EXCAVATION, BOTTOM PREPARATION AND BACKFILLING SECTION HEREIN
- 2. ALL CONSTRUCTION OF UTILITY PIPE, CONDUIT, CABLE, WIRES, VAULTS AND PERTINENT EQUIPMENT SHALL COMPLY WITH THE CURRENT REGULATIONS OF THE PUBLIC UTILITIES COMMISSION OF OHIO AND WITH THE REQUIREMENTS OF THE UTILITIES
- 3. THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAS BEEN OBTAINED BY DILIGENT FIELD CHECK AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE DESIGN ENGINEER DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS AND THE CONTRACTOR IS THEREFORE URGED TO PROCEED WITH
- 4. EXISTING APPURTENANCES SUCH AS UTILITY POLES, VALVE BOXES, ETC. ARE TO BE SAFEGUARDED BY THE CONTRACTOR DURING CONSTRUCTION.
- 5. THE CONTRACTOR SHALL CONTACT THE UTILITIES PROTECTION SERVICE, 1-800-362-2764 AT LEAST FORTY-EIGHT (48) HOURS BEFORE ANY UNDERGROUND WORK IS COMMENCED IN EXISTING STREETS.



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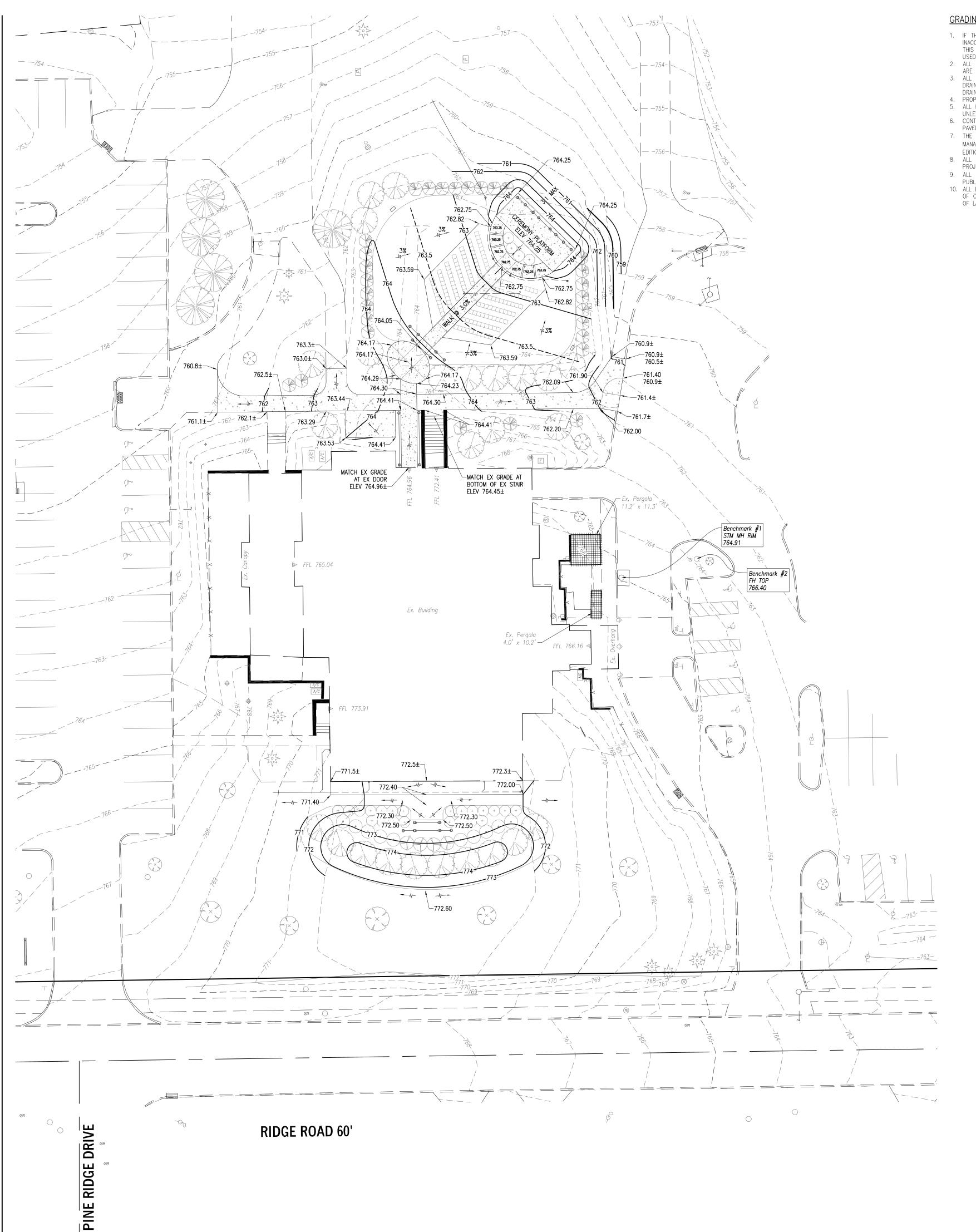
> UTILITY **PLAN**

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GRADING PLAN NOTES

- 1. IF THE CONTRACTOR BELIEVES THAT SOME OR ALL OF THE EXISTING INFORMATION SHOWN ON THE PROJECT SURVEY IS INACCURATE, THEN THEY ARE REQUIRED TO HAVE A CERTIFIED SURVEY PERFORMED OF THE PROJECT AREA IN QUESTION. THIS CERTIFIED SURVEY MUST BE PERFORMED PRIOR TO ANY DEMOLITION OR EARTHWORK. THIS CERTIFIED SURVEY WILL BE USED AS THE BASIS FOR CONFIRMING ACCURACY OF THE INFORMATION PROVIDED AS PART OF THE CONTRACT DOCUMENTS. 2. ALL NEW EARTHWORK SHALL BE BLENDED TO MEET EXISTING SITE CONDITIONS WHICH ARE TO REMAIN. GRADED SLOPES
- ARE SHOWN AT 3:1 MAXIMUM. 3. ALL PROPOSED LAWN AND HARD SURFACE GRADED AREAS SHALL HAVE POSITIVE SURFACE DRAINAGE TOWARDS STORM DRAINAGE STRUCTURES AND AWAY FROM ALL STRUCTURES WHERE APPLICABLE. CONTRACTOR SHALL CONTACT ENGINEER IF DRAINAGE CONFLICTS ARISE IN FIELD DURING CONSTRUCTION.
- 4. PROPOSED GRADING SHALL NOT INHIBIT THE SURFACE DRAINAGE FOR ADJOINING PARCELS. 5. ALL PROPOSED PAVEMENT SHALL HAVE A MINIMUM SURFACE SLOPE OF 1.20% AND A MAXIMUM SURFACE SLOPE OF 5.00% 6. CONTRACTOR SHALL CONSTRUCT ALL IMPROVEMENTS SO AS TO MINIMIZE DAMAGE TO PAVED AREAS CALLED TO REMAIN OR
- PAVED AREAS TO BE MILLED AND RESURFACED. 7. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF OHIO'S STANDARDS FOR STORMWATER MANAGEMENT LAND DEVELOPMENT AND URBAN STREAM PROTECTION ENTITLED "RAINWATER AND LAND DEVELOPMENT" (LATEST
- 8. ALL GRADED SLOPES GREATER THAN OR EQUAL TO 6:1 SHALL HAVE EROSION CONTROL BLANKETS INSTALLED AS PER
- PROJECT SPECIFICATIONS. 9. ALL NEW DRIVEWAY APRONS WITHIN THE PUBLIC RIGHT OF WAY(S) SHALL MAINTAIN ADA ACCESSIBLE ACCESS WHERE THE
- PUBLIC SIDEWALK CROSSES THE NEW DRIVEWAY APRON. 10. ALL LAWN AREAS REMOVED OR DISTURBED SHALL BE REPLACED BY SEEDING AND MULCHING IN ACCORDANCE WITH ITEM 659 OF ODOT SPECIFICATIONS AND SHALL BE RESEEDED AND MULCHED WHEN REQUESTED IF SATISFACTORY RE-ESTABLISHMENT

SITE PREPARATION AND EARTHWORK NOTES

EARTHWORK NOTES

1. THE RECOMMENDATIONS INCLUDED IN THIS REPORT ARE NOT BASED ON TEST BORINGS, OR ANY KNOWN KNOWLEDGE OF SUBSURFACE CONDITIONS AT THE SITE. ANY FUTURE PROJECT DEVELOPMENT'S EXTENT AND DESIGN ARE UNKNOWN. THE INCLUDED RECOMMENDATIONS MUST BE CONSIDERED PRELIMINARY IN NATURE. ALL RECOMMENDATIONS HAVE BEEN MAINTAINED ON A HIGHLY GENERALIZED PLAN AND ARE NOT TO BE CONSTRUED AS SPECIFIC AND/OR FINALIZED. A DETAILED SITE INVESTIGATION INCLUDING TEST BORINGS, LABORATORY TESTS AND ANALYSIS WILL BE REQUIRED PRIOR TO ANY FINAL DESIGN FOR FUTURE IMPROVEMENTS.



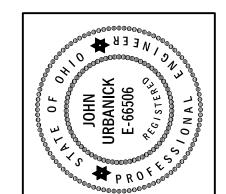
- FOLLOWING THE SITE CLEARING, STRIPPING AND UNDERCUTTING, AND PRIOR TO PLACING SUITABLE FILL, THE EXPOSED SUBGRADES SHOULD BE PROOFROLLED WITH A LOADED 20-TON TO 30-TON TANDEM-AXLE DUMP TRUCK UNTIL THE GRADE OFFERS A RELATIVELY UNYIELDING SURFACE. AREAS OF EXCESSIVE YIELDING SHOULD BE EXCAVATED AND BACKFILLED WITH COMPACTED SUITABLE FILL AND/OR THE UNSTABLE SOILS CAN BE STABILIZED BY CHOKING THE EXPOSED BEARING SURFACE WITH CRUSHED LIMESTONE OR SIMILAR COARSE AGGREGATE. AFTER THE EXISTING SUBGRADE MATERIALS ARE EXCAVATED PROPER CONTROL OF SUBGRADE COMPACTION AND THE PLACEMENT AND COMPACTION OF NEW FILL MATERIALS SHOULD BE
- 4. IT IS RECOMMENDED THAT THE SITE PREPARATION, PROOFROLLING AND EARTHWORK ACTIVITIES SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER, WHICH CAN SIGNIFICANTLY REDUCE THE REQUIRED EXTENT OF SOIL STABILIZATION, DRAINAGE AND SURFACE REPAIRS.
- 5. DURING SITE PREPARATION, BURN PITS, TRASH PITS OR OTHER ISOLATED DISPOSAL AREAS MAYBE ENCOUNTERED. ANY SUCH MATERIALS ENCOUNTERED DURING SITE WORK ON CONSTRUCTION SHOULD BE COMPLETELY EXCAVATED AND REMOVED FROM
- 6. SUITABLE FILL MATERIALS SHOULD CONSIST OF NON-EXPANSIVE MATERIALS, POTENTIALLY EXPANSIVE MATERIALS SHOULD NOT BE USED AS SUITABLE FILL MATERIAL. MATERIALS SELECTED FOR USE AS SUITABLE FILL SHOULD NOT CONTAIN ORGANIC MATTER, WASTE CONSTRUCTION DEBRIS, OR OTHER DELETERIOUS MATERIALS, FILL MATERIALS SHOULD GENERALLY HAVE A STANDARD PROCTOR MAXIMUM DRY DENSITY GREATER THAN 110 POUNDS PER CUBIC FOOT (PCF), AN ATTERBERG LIQUID LIMIT LESS THAN 40, A PLASTICITY INDEX OF LESS THAN 20, AND A MAXIMUM PARTICLE SIZE OF 2 INCHES OR LESS. . REPRESENTATIVE SAMPLES OF THE PROPOSED FILL MATERIAL SHOULD BE COLLECTED AT LEAST ONE WEEK PRIOR TO THE START OF THE FILLING OPERATIONS. THE SAMPLES SHOULD BE TESTED TO DETERMINE THE MAXIMUM DRY DENSITY, OPTIMUM
- DETERMINE IF THE MATERIAL IS ACCEPTABLE AS SUITABLE FILL AND FOR QUALITY CONTROL DURING THE COMPACTION 8. THE FILL SHOULD BE PLACED IN LAYERS OF NOT MORE THAN 8 INCHES IN THICKNESS, WITH EACH LAYER BEING COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF THE MAXIMUM DRY DENSITY AND WITH +/-2% OF THE OPTIMUM MOISTURE CONTENT, AS DETERMINED BY THE STANDARD PROCTOR METHOD ASTM D-698. MOISTURE CONTROL OF THE

MOISTURE CONTENT, PARTICLE SIZE DISTRIBUTION AND PLASTICITY CHARACTERISTICS. THESE TESTS ARE NEEDED TO

- SUITABLE FILL MATERIALS MAY BE NECESSARY FOR COMPACTION. 9. SUITABLE FILL OPERATIONS WILL REQUIRE MONITORING/TESTING BY A GEOTECHNICAL CONSULTANT TO ENSURE PROPER COMPACTION REQUIREMENTS ARE MET.
- 10. WATER SEEPING MAY BE ENCOUNTERED DURING FOUNDATION EXCAVATION AND DEMOLITION. ACCORDINGLY, A GRAVITY DRAINAGE SYSTEM, SUMP PUMP OR OTHER CONVENTIONAL DEWATERING PROCEDURE AS DEEMED NECESSARY BY THE FIELD
- CONDITIONS MAY BE NECESSARY. EVERY EFFORT SHOULD BE MADE TO KEEP THE EXCAVATIONS DRY IF WATER IS 11. POSITIVE SITE DRAINAGE SHOULD BE PROVIDED TO REDUCE INFILTRATION OF SURFACE WATER AROUND THE PERIMETER OF
- THE FILL AREA. OVERALL SITE AREA DRAINAGE IS TO BE ARRANGED IN A MANNER SUCH THAT THE POSSIBILITY OF WATER IMPOUNDING OVER THE STRUCTURAL FILL IS PREVENTED.

- 12. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DESIGNING AND CONSTRUCTING STABLE, TEMPORARY EXCAVATIONS AND SHOULD SHORE, SLOPE, OR BENCH THE SIDES OF THE EXCAVATIONS AS REQUIRED TO MAINTAIN STABILITY OF BOTH THE EXCAVATION SIDES AND BOTTOM. THE CONTRACTOR SHOULD EVALUATE THE SOIL EXPOSED IN THE EXCAVATIONS AS PART OF THE CONTRACTOR'S SAFETY PROCEDURES. IN NO CASE SHOULD SLOPE HEIGHT, SLOPE INCLINATION, OR EXCAVATION DEPTH INCLUDING UTILITY TRENCH EXCAVATION DEPTH, EXCEED THOSE SPECIFIED IN LOCAL, STATE AND FEDERAL SAFETY
- 13. MATERIALS REMOVED FROM THE EXCAVATION SHOULD NOT BE STOCKPILED IMMEDIATELY ADJACENT TO THE EXCAVATION, INASMUCH AS THIS LOAD MAY CAUSE A SUDDEN COLLAPSE OF THE EMBANKMENT.

14. THE SOILS COULD BE SENSITIVE TO DISTURBANCES CAUSED BY CONSTRUCTION TRAFFIC AND TO CHANGES IN MOISTURE CONTENT. DURING WET WEATHER PERIODS, INCREASES IN THE MOISTURE CONTENT OF THE SOIL CAN CAUSE SIGNIFICANT REDUCTION IN THE SOIL STRENGTH AND SUPPORT CAPABILITIES. CARE SHOULD BE EXERCISED DURING THE GRADING OPERATIONS AT THE SITE. TRAFFIC OF HEAVY EQUIPMENT, INCLUDING HEAVY COMPACTION EQUIPMENT, MAY VERY WELL CREATE PUMPING AND A GENERAL DETERIORATION OF THE SOILS IN THE PRESENCE OF WATER. THEREFORE, THE GRADING SHOULD, IF AT ALL POSSIBLE, BE PERFORMED DURING A DRY SEASON. A LAYER OF CRUSHED STONE MAY BE REQUIRED TO ALLOW THE MOVEMENT OF CONSTRUCTION TRAFFIC OVER THE SITE DURING THE RAINY SEASON. THE CONTRACTOR SHOULD MAINTAIN POSITIVE SITE DRAINAGE AND IF WET/PUMPING CONDITIONS OCCUR, THE CONTRACTOR WILL BE RESPONSIBLE TO OVER EXCAVATE THE WET SOILS AND REPLACE THEM WITH A PROPERLY COMPACTED ENGINEERED FILL.



ROCKAWAY Rockaway Civil LLC 10191 Sperry Road Kirtland Ohio 44094 440 655 8182 www.rockawaycivil.com



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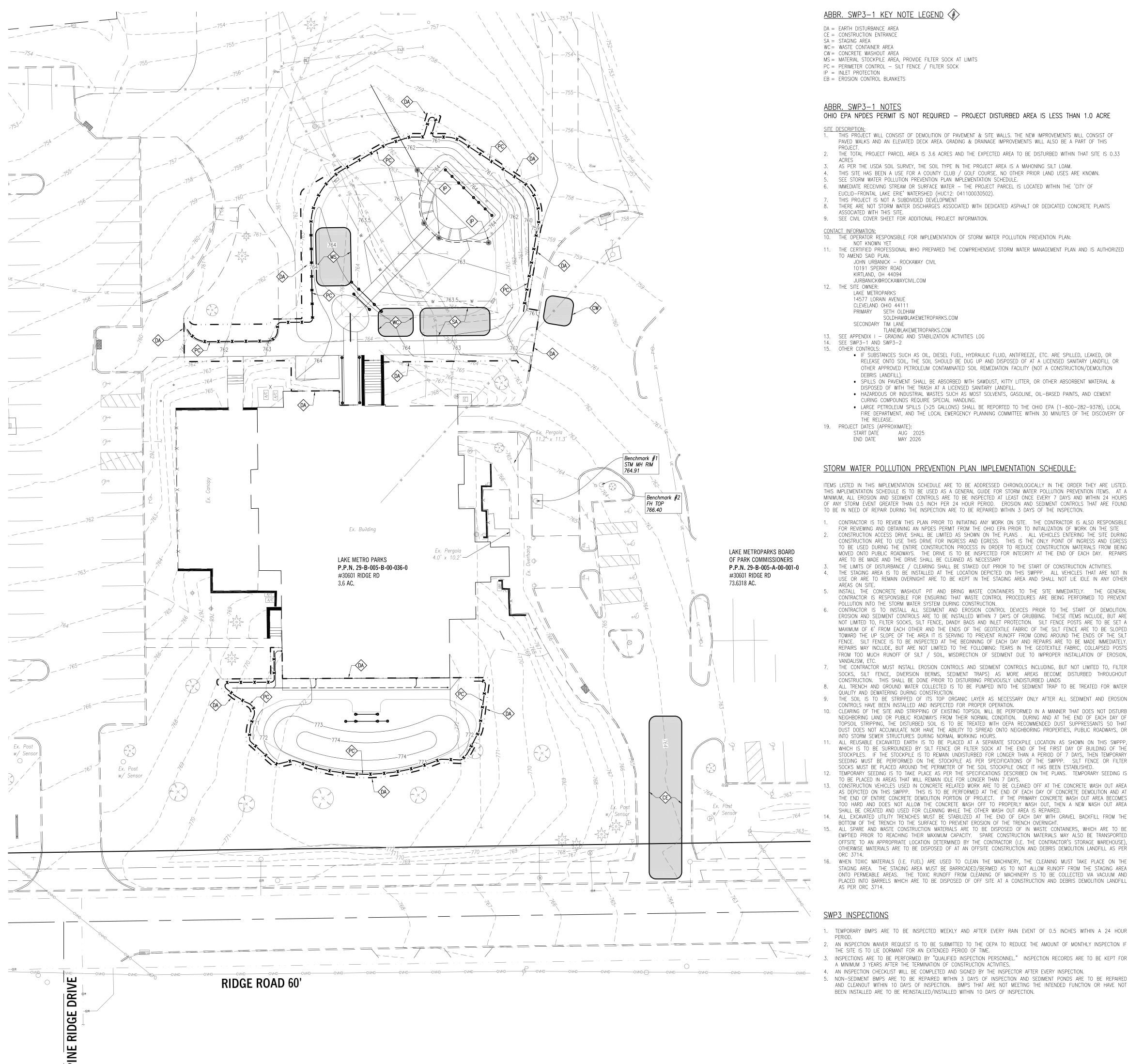
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> GRADING **PLAN**

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ABBR. SWP3-1 KEY NOTE LEGEND <#>

- DA = EARTH DISTURBANCE AREA CE = CONSTRUCTION ENTRANCE
- SA = STAGING AREA
- WC = WASTE CONTAINER AREA CW = CONCRETE WASHOUT AREA
- MS = MATERIAL STOCKPILE AREA, PROVIDE FILTER SOCK AT LIMITS
- PC = PERIMETER CONTROL SILT FENCE / FILTER SOCK
- IP = INLET PROTECTION EB = EROSION CONTROL BLANKETS

ABBR. SWP3-1 NOTES

OHIO EPA NPDES PERMIT IS NOT REQUIRED - PROJECT DISTURBED AREA IS LESS THAN 1.0 ACRE

- THIS PROJECT WILL CONSIST OF DEMOLITION OF PAVEMENT & SITE WALLS. THE NEW IMPROVEMENTS WILL CONSIST OF PAVED WALKS AND AN ELEVATED DECK AREA. GRADING & DRAINAGE IMPROVEMENTS WILL ALSO BE A PART OF THIS
- THE TOTAL PROJECT PARCEL AREA IS 3.6 ACRES AND THE EXPECTED AREA TO BE DISTURBED WITHIN THAT SITE IS 0.33
- AS PER THE USDA SOIL SURVEY, THE SOIL TYPE IN THE PROJECT AREA IS A MAHONING SILT LOAM.
- THIS SITE HAS BEEN A USE FOR A COUNTY CLUB / GOLF COURSE. NO OTHER PRIOR LAND USES ARE KNOWN.
- SEE STORM WATER POLLUTION PREVENTION PLAN IMPLEMENTATION SCHEDULE. IMMEDIATE RECEIVING STREAM OR SURFACE WATER - THE PROJECT PARCEL IS LOCATED WITHIN THE 'CITY OF
- EUCLID-FRONTAL LAKE ERIE' WATERSHED (HUC12: 041100030502). THIS PROJECT IS NOT A SUBDIVIDED DEVELOPMENT
- THERE ARE NOT STORM WATER DISCHARGES ASSOCIATED WITH DEDICATED ASPHALT OR DEDICATED CONCRETE PLANTS ASSOCIATED WITH THIS SITE

9. SEE CIVIL COVER SHEET FOR ADDITIONAL PROJECT INFORMATION

0. THE OPERATOR RESPONSIBLE FOR IMPLEMENTATION OF STORM WATER POLLUTION PREVENTION PLAN: NOT KNOWN YET

- 11. THE CERTIFIED PROFESSIONAL WHO PREPARED THE COMPREHENSIVE STORM WATER MANAGEMENT PLAN AND IS AUTHORIZED TO AMEND SAID PLAN JOHN URBANICK - ROCKAWAY CIVIL
- 10191 SPFRRY ROAD KIRTLAND OH 44094
- JURBANICK@ROCKAWAYCIVIL.COM 12. THE SITE OWNER:
 - LAKE METROPARKS 14577 LORAIN AVENUE
 - CLEVELAND OHIO 4411 PRIMARY SETH OLDHAM SOLDHAM@LAKEMETROPARKS.COM
 - SECONDARY TIM LANE TLANF@LAKEMETROPARKS.COM
- 13. SEE APPENDIX I GRADING AND STABILIZATION ACTIVITIES LOG
- 14. SEE SWP3-1 AND SWP3-2 15. OTHER CONTROLS: • IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR
- RELEASE ONTO SOIL, THE SOIL SHOULD BE DUG UP AND DISPOSED OF AT A LICENSED SANITARY LANDFILL OR OTHER APPROVED PETROLEUM CONTAMINATED SOIL REMEDIATION FACILITY (NOT A CONSTRUCTION/DEMOLITION DEBRIS LANDFILL
- SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST, KITTY LITTER, OR OTHER ABSORBENT MATERIAL & DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LANDFILL. • HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL-BASED PAINTS, AND CEMENT
- CURING COMPOUNDS REQUIRE SPECIAL HANDLING.
- LARGE PETROLEUM SPILLS (>25 GALLONS) SHALL BE REPORTED TO THE OHIO EPA (1-800-282-9378), LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE DISCOVERY OF THE RELEASE
- 19. PROJECT DATES (APPROXIMATE): START DATE AUG 2025 END DATE MAY 2026

STORM WATER POLLUTION PREVENTION PLAN IMPLEMENTATION SCHEDULE:

ITEMS LISTED IN THIS IMPLEMENTATION SCHEDULE ARE TO BE ADDRESSED CHRONOLOGICALLY IN THE ORDER THEY ARE LISTED. THIS IMPLEMENTATION SCHEDULE IS TO BE USED AS A GENERAL GUIDE FOR STORM WATER POLLUTION PREVENTION ITEMS. AT A MINIMUM, ALL EROSION AND SEDIMENT CONTROLS ARE TO BE INSPECTED AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF ANY STORM EVENT GREATER THAN 0.5 INCH PER 24 HOUR PERIOD. EROSION AND SEDIMENT CONTROLS THAT ARE FOUND TO BE IN NEED OF REPAIR DURING THE INSPECTION ARE TO BE REPAIRED WITHIN 3 DAYS OF THE INSPECTION.

- CONTRACTOR IS TO REVIEW THIS PLAN PRIOR TO INITIATING ANY WORK ON SITE. THE CONTRACTOR IS ALSO RESPONSIBLE FOR REVIEWING AND OBTAINING AN NPDES PERMIT FROM THE OHIO EPA PRIOR TO INITIALIZATION OF WORK ON THE SITE CONSTRUCTION ACCESS DRIVE SHALL BE LIMITED AS SHOWN ON THE PLANS . ALL VEHICLES ENTERING THE SITE DURING CONSTRUCTION ARE TO USE THIS DRIVE FOR INGRESS AND EGRESS. THIS IS THE ONLY POINT OF INGRESS AND EGRESS TO BE USED DURING THE ENTIRE CONSTRUCTION PROCESS IN ORDER TO REDUCE CONSTRUCTION MATERIALS FROM BEING MOVED ONTO PUBLIC ROADWAYS. THE DRIVE IS TO BE INSPECTED FOR INTEGRITY AT THE END OF EACH DAY. REPAIRS ARE TO BE MADE AND THE DRIVE SHALL BE CLEANED AS NECESSARY
- 4. THE STAGING AREA IS TO BE INSTALLED AT THE LOCATION DEPICTED ON THIS SWPPP. ALL VEHICLES THAT ARE NOT IN
- USE OR ARE TO REMAIN OVERNIGHT ARE TO BE KEPT IN THE STAGING AREA AND SHALL NOT LIE IDLE IN ANY OTHER INSTALL THE CONCRETE WASHOUT PIT AND BRING WASTE CONTAINERS TO THE SITE IMMEDIATELY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT WASTE CONTROL PROCEDURES ARE BEING PERFORMED TO PREVENT POLLUTION INTO THE STORM WATER SYSTEM DURING CONSTRUCTION
- CONTRACTOR IS TO INSTALL ALL SEDIMENT AND EROSION CONTROL DEVICES PRIOR TO THE START OF DEMOLITION. EROSION AND SEDIMENT CONTROLS ARE TO BE INSTALLED WITHIN 7 DAYS OF GRUBBING. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO, FILTER SOCKS, SILT FENCE, DANDY BAGS AND INLET PROTECTION. SILT FENCE POSTS ARE TO BE SET A MAXIMUM OF 6' FROM EACH OTHER AND THE ENDS OF THE GEOTEXTILE FABRIC OF THE SILT FENCE ARE TO BE SLOPED TOWARD THE UP SLOPE OF THE AREA IT IS SERVING TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE. SILT FENCE IS TO BE INSPECTED AT THE BEGINNING OF EACH DAY AND REPAIRS ARE TO BE MADE IMMEDIATELY. REPAIRS MAY INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: TEARS IN THE GEOTEXTILE FABRIC, COLLAPSED POSTS FROM TOO MUCH RUNOFF OF SILT / SOIL, MISDIRECTION OF SEDIMENT DUE TO IMPROPER INSTALLATION OF EROSION,
- 7. THE CONTRACTOR MUST INSTALL EROSION CONTROLS AND SEDIMENT CONTROLS INCLUDING, BUT NOT LIMITED TO, FILTER SOCKS, SILT FENCE, DIVERSION BERMS, SEDIMENT TRAPS) AS MORE AREAS BECOME DISTURBED THROUGHOUT CONSTRUCTION. THIS SHALL BE DONE PRIOR TO DISTURBING PREVIOUSLY UNDISTURBED LANDS ALL TRENCH AND GROUND WATER COLLECTED IS TO BE PUMPED INTO THE SEDIMENT TRAP TO BE TREATED FOR WATER
- THE SOIL IS TO BE STRIPPED OF ITS TOP ORGANIC LAYER AS NECESSARY ONLY AFTER ALL SEDIMENT AND EROSION CONTROLS HAVE BEEN INSTALLED AND INSPECTED FOR PROPER OPERATION. 10. CLEARING OF THE SITE AND STRIPPING OF EXISTING TOPSOIL WILL BE PERFORMED IN A MANNER THAT DOES NOT DISTURB NEIGHBORING LAND OR PUBLIC ROADWAYS FROM THEIR NORMAL CONDITION. DURING AND AT THE END OF EACH DAY OF TOPSOIL STRIPPING. THE DISTURBED SOIL IS TO BE TREATED WITH OFPA RECOMMENDED DUST SUPPRESSANTS SO THAT DUST DOES NOT ACCUMULATE NOR HAVE THE ABILITY TO SPREAD ONTO NEIGHBORING PROPERTIES, PUBLIC ROADWAYS, OR INTO STORM SEWER STRUCTURES DURING NORMAL WORKING HOURS. 1. ALL REUSABLE EXCAVATED EARTH IS TO BE PLACED AT A SEPARATE STOCKPILE LOCATION AS SHOWN ON THIS SWPPP WHICH IS TO BE SURROUNDED BY SILT FENCE OR FILTER SOCK AT THE END OF THE FIRST DAY OF BUILDING OF THE
- SOCKS MUST BE PLACED AROUND THE PERIMETER OF THE SOIL STOCKPILE ONCE IT HAS BEEN ESTABLISHED. TEMPORARY SEEDING IS TO TAKE PLACE AS PER THE SPECIFICATIONS DESCRIBED ON THE PLANS. TEMPORARY SEEDING IS TO BE PLACED IN AREAS THAT WILL REMAIN IDLE FOR LONGER THAN 7 DAYS CONSTRUCTION VEHICLES USED IN CONCRETE RELATED WORK ARE TO BE CLEANED OFF AT THE CONCRETE WASH OUT AREA
- AS DEPICTED ON THIS SWPPP. THIS IS TO BE PERFORMED AT THE END OF EACH DAY OF CONCRETE DEMOLITION AND AT THE END OF ENTIRE CONCRETE DEMOLITION PORTION OF PROJECT. IF THE PRIMARY CONCRETE WASH OUT AREA BECOMES TOO HARD AND DOES NOT ALLOW THE CONCRETE WASH OFF TO PROPERLY WASH OUT, THEN A NEW WASH OUT AREA SHALL BE CREATED AND USED FOR CLEANING WHILE THE OTHER WASH OUT AREA IS REPAIRED 14. ALL EXCAVATED UTILITY TRENCHES MUST BE STABILIZED AT THE END OF EACH DAY WITH GRAVEL BACKELL FROM THE
- BOTTOM OF THE TRENCH TO THE SURFACE TO PREVENT EROSION OF THE TRENCH OVERNIGHT. ALL SPARE AND WASTE CONSTRUCTION MATERIALS ARE TO BE DISPOSED OF IN WASTE CONTAINERS, WHICH ARE TO BE EMPTIED PRIOR TO REACHING THEIR MAXIMUM CAPACITY. SPARE CONSTRUCTION MATERIALS MAY ALSO BE TRANSPORTED OFFSITE TO AN APPROPRIATE LOCATION DETERMINED BY THE CONTRACTOR (I.E. THE CONTRACTOR'S STORAGE WAREHOUSE). OTHERWISE MATERIALS ARE TO BE DISPOSED OF AT AN OFFSITE CONSTRUCTION AND DEBRIS DEMOLITION LANDFILL AS PER
- 16. WHEN TOXIC MATERIALS (I.E. FUEL) ARE USED TO CLEAN THE MACHINERY, THE CLEANING MUST TAKE PLACE ON THE STAGING AREA. THE STAGING AREA MUST BE BARRICADED/BERMED AS TO NOT ALLOW RUNOFF FROM THE STAGING AREA ONTO PERMEABLE AREAS. THE TOXIC RUNOFF FROM CLEANING OF MACHINERY IS TO BE COLLECTED VIA VACUUM AND PLACED INTO BARRELS WHICH ARE TO BE DISPOSED OF OFF SITE AT A CONSTRUCTION AND DEBRIS DEMOLITION LANDFILL AS PER ORC 3714.

SWP3 INSPECTIONS

- 1. TEMPORARY BMPS ARE TO BE INSPECTED WEEKLY AND AFTER EVERY RAIN EVENT OF 0.5 INCHES WITHIN A 24 HOUR AN INSPECTION WAIVER REQUEST IS TO BE SUBMITTED TO THE OEPA TO REDUCE THE AMOUNT OF MONTHLY INSPECTION IF
- THE SITE IS TO LIE DORMANT FOR AN EXTENDED PERIOD OF TIME. INSPECTIONS ARE TO BE PERFORMED BY "QUALIFIED INSPECTION PERSONNEL." INSPECTION RECORDS ARE TO BE KEPT FOR A MINIMUM 3 YEARS AFTER THE TERMINATION OF CONSTRUCTION ACTIVITIES.
- AN INSPECTION CHECKLIST WILL BE COMPLETED AND SIGNED BY THE INSPECTOR AFTER EVERY INSPECTION. NON-SEDIMENT BMPS ARE TO BE REPAIRED WITHIN 3 DAYS OF INSPECTION AND SEDIMENT PONDS ARE TO BE REPAIRED AND CLEANOUT WITHIN 10 DAYS OF INSPECTION. BMPS THAT ARE NOT MEETING THE INTENDED FUNCTION OR HAVE NOT BEEN INSTALLED ARE TO BE REINSTALLED/INSTALLED WITHIN 10 DAYS OF INSPECTION.

ADDITIONAL CONSTRUCTION SITE POLLUTION CONTROLS (PER ODNR RAINWATER & LAND DEVELOPMENT MANUAL

ALTHOUGH SEDIMENT IS THE PRIMARY POLLUTANT OF CONCERN RESULTING FROM CONSTRUCTION ACTIVITY, OTHER POLLUTANTS NEED TO BE CONSIDERED AS WELL. THESE INCLUDE PETROCHEMICALS: FUEL, OIL AND ASPHALT; AND CONSTRUCTION CHEMICALS AND MATERIALS: PAINTS, SOLVENTS, FERTILIZER, SOIL ADDITIVES, CONCRETE WASH WATER, ETC. ALSO INCLUDED ARE SOLID WASTES AND CONSTRUCTION DEBRIS. KEEPING THESE SUBSTANCES FROM POLLUTING RUNOFF CAN BE ACCOMPLISHED TO A LARGE EXTENT THROUGH GOOD HOUSEKEEPING AND FOLLOWING THE MANUFACTURER'S RECOMMENDATIONS FOR THEIR USE AND

WASTES GENERATED BY CONSTRUCTION ACTIVITIES (I.E. CONSTRUCTION MATERIALS SUCH AS PAINTS, SOLVENTS, FUELS, CONCRETE WOOD, ETC.) MUST BE DISPOSED OF IN ACCORDANCE WITH ORC 3734 AND ORC 3714. HAZARDOUS AND TOXIC SUBSTANCES ARE USED ON VIRTUALLY ALL CONSTRUCTION-SITES. GOOD MANAGEMENT OF THESE SUBSTANCES IS ALWAYS NEEDED.

GOOD EROSION AND SEDIMENT CONTROL WILL PREVENT SOME POLLUTANTS IN ADDITION TO SEDIMENT FROM LEAVING THE SITE; HOWEVER, POLLUTANTS CARRIED IN SOLUTION OR AS SURFACE FILMS ON RUNOFF WATER WILL BE CARRIED THROUGH MOST EROSION AND SEDIMENT CONTROL PRACTICES. THESE POLLUTANTS BECOME NEARLY IMPOSSIBLE TO CONTROL ONCE CARRIED OFFSITE IN RUNOFF. ADDING TO THE PROBLEM IS THE FACT THAT CONSTRUCTION WASTES, MANY CONTAINING TOXIC CHEMICALS, ARE ROUTINELY BURIED ON-SITE, DUMPED ON THE GROUND, POURED DOWN A STORM DRAIN, OR DISPOSED OF WITH CONSTRUCTION DEBRIS. SO WHILE TYPICAL EROSION AND SEDIMENT-CONTROL PRACTICES ARE IMPORTANT FOR CONTROLLING OTHER POLLUTANTS, ADDITIONAL PREVENTATIVE MEASURES ARE NEEDED.

REDUCING POLLUTANTS OTHER THAN SEDIMENTS DEPENDS HEAVILY ON CONSTRUCTION PERSONNEL AND HOW THEY CARRY OUT THEIR OPERATIONS. TO HELP FACILITATE THIS, PLANS SHOULD CONTAIN STANDARD NOTES CLEARLY STATING REQUIREMENTS TO CONTRACTORS. IT ALSO MAY BE APPROPRIATE TO INCLUDE REQUIREMENTS FOR SPECIFIC PROVISIONS FOR HAZARDOUS MATERIALS STORAGE, HANDLING AND DISPOSAL

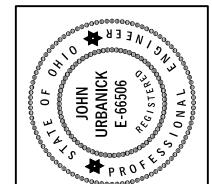
EDUCATE CONSTRUCTION PERSONNEL, INCLUDING SUBCONTRACTORS WHO MAY USE OR HANDLE HAZARDOUS OR TOXIC MATERIALS, MAKING THEM AWARE OF THE FOLLOWING GENERAL GUIDELINES:

DISPOSAL AND HANDLING OF HAZARDOUS AND OTHER CONSTRUCTION WASTE

PREVENT SPILLS

- USE PRODUCTS UP
- FOLLOW LABEL DIRECTIONS FOR DISPOSAL • REMOVE LIDS FROM EMPTY BOTTLES AND CANS WHEN DISPOSING IN TRASH RECYCLE WASTES WHENEVER POSSIBLE

- DON'T POUR INTO WATERWAYS, STORM DRAINS OR ONTO THE GROUND DON'T POUR DOWN THE SINK, FLOOR DRAIN OR SEPTIC TANKS
- DON'T BURY CHEMICALS OR CONTAINERS
- DON'T BURN CHEMICALS OR CONTAINERS
- DON'T MIX CHEMICALS TOGETHER
- 2. WASTE DISPOSAL CONTAINERS SHALL BE PROVIDED FOR THE PROPER COLLECTION OF ALL WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, SANITARY GARBAGE, PETROLEUM PRODUCTS AND ANY HAZARDOUS MATERIALS TO BE USED ON-SITE. CONTAINERS SHALL BE COVERED AND NOT LEAKING. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL. CONSTRUCTION DEMOLITION AND DEBRIS (CD&D) WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH ORC 3714 AT AN APPROVED OHIO EPA CD&D LANDFILL.
- 3. NO CONSTRUCTION RELATED WASTE MATERIALS ARE TO BE BURIED ON-SITE. BY EXCEPTION, CLEAN FILL (BRICKS, HARDENED CONCRETE, SOIL) MAY BE UTILIZED IN A WAY THAT DOES NOT ENCROACH UPON NATURAL WETLANDS, STREAMS OR THEIR FLOODPLAINS. FILLING OF STREAM SIDE AREAS IS FILL MAY NOT RESULT IN THE CONTAMINATION OF WATERS OF THE STATE, UNLESS PROHIBITED BY LOCAL ORDINANCE OR ZONING.
- 4. CONSTRUCTION AND DEMOLITION DEBRIS (CD&D) DISPOSAL. CD&D WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH ORC 3714 AT AN APPROVED OHIO EPA CD&D LANDFILL. CD&D WASTE IS DEFINED AS ALL MATERIALS ATTACHED TO A STRUCTURE, WHICH IS BEING DEMOLISHED (FOR MATERIALS CONTAINING ASBESTOS SEE ITEM 12)
- HANDLING CONSTRUCTION CHEMICALS. MIXING, PUMPING, TRANSFERRING OR OTHER HANDLING OF CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH OR STORM DRAIN.
- 6. EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES OR STORM DRAINS, IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS. SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ALL FUEL OIL STORAGE TANKS. THESE AREAS MUST BE INSPECTED EVERY SEVEN DAYS AND WITHIN 24 HRS. OF A 0.5 INCH OR GREATER RAIN EVENT TO ENSURE THERE ARE NO EXPOSED MATERIALS WHICH WOULD CONTAMINATE STORM WATER. SITE OPERATORS MUST BE AWARE THAT SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) REQUIREMENTS MAY APPLY. AN SPCC PLAN IS REQUIRED FOR SITES WITH ONE SINGLE ABOVEGROUND TANK OF 660 GALLONS OR MORE, ACCUMULATIVE ABOVEGROUND STORAGE OF 1330 GALLONS OR MORE, OR 42,000 GALLONS OF UNDERGROUND STORAGE. SOILS THAT HAVE BECOME CONTAMINATED MUST BE DISPOSED OF ACCORDANCE WITH ITEM 8 DCONTAMINATED SOILS.
- CONCRETE WASH WATER/WASH OUTS. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIFLD THE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT. OF THE SUMP SHALL BE CUT AND PLUGGED. FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED ON THE LOT AWAY FROM ANY WATER CONVEYANCES.
- B. CONTAMINATED SOILS. IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED ONTO THE SOIL, THE SOIL SHOULD BE DUG UP AND DISPOSED OF AT LICENSED SANITARY LANDFILL OR OTHER APPROVED PETROLEUM CONTAMINATED SOIL REMEDIATION FACILITY (NOT A CONSTRUCTION/DEMOLITION DEBRIS LANDFILL). PLEASE BE AWARE THAT STORM WATER RUNOFF ASSOCIATED WITH CONTAMINATED SOILS ARE NOT AUTHORIZED. UNDER OHIO EPA'S GENERAL STORM WATER PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITIES. IN THE EVENT THERE ARE LARGE EXTENSIVE AREAS OF CONTAMINATED SOILS ADDITIONAL MEASURES ABOVE AND BEYOND THE CONDITIONS OF OHIO EPA'S GENERAL CONSTRUCTION STORM WATER PERMIT WILL BE REQUIRED. DEPENDING ON THE EXTENT OF CONTAMINATION ADDITIONAL TREATMENT AND/OR COLLECTION AND DISPOSAL MAY BE REQUIRED. ALL STORM WATER DISCHARGES ASSOCIATED WITH THE CONTAMINATED SOILS MUST BE AUTHORIZED UNDER AN ALTERNATE NPDES (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM) PERMIT.
- SPILL REPORTING REQUIREMENTS: SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST, KITTY LITTER OR OTHER ABSORBENT MATERIAL AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LANDFILL. HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL-BASED PAINTS, AND CEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING. SPILLS SHALL BE REPORTED TO OHIO EPA (1-800-282-9378). SPILLS OF 25 GALLONS OR MORE OF PETROLEUM PRODUCTS SHALL BE REPORTED TO OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MIN. OF THE DISCOVERY OF THE RELEASE. ALL SPILLS, WHICH RESULT
- IN CONTACT WITH WATERS OF THE STATE, MUST BE REPORTED TO OHIO EPA'S HOTLINE. 10. OPEN BURNING. NO MATERIALS MAY BE BURNED WHICH CONTAIN RUBBER, GREASE, ASPHALT, OR PETROLEUM PRODUCTS SUCH AS TIRES, CARS, AUTO PARTS, PLASTICS OR PLASTIC COATED WIRE. (SEE OAC 3745-19) OPEN BURNING IS NOT ALLOWED IN RESTRICTED AREAS. RESTRICTED AREAS ARE DEFINED AS: 1) WITHIN CORPORATION LIMITS; 2) WITHIN 1000 FEET OUTSIDE A MUNICIPAL CORPORATION HAVING A POPULATION OF 1000 TO 10,000; AND 3) A ONE MILE ZONE OUTSIDE OF A CORPORATION OF 10,000 OR MORE. OUTSIDE A RESTRICTED AREA, NO OPEN BURNING CAN TAKE PLACE WITHIN A 1000 FEET OF AN INHABITED BUILDING LOCATED OFF THE PROPERTY WHERE THE FIRE IS SET. OPEN BURNING IS PERMISSIBLE IN A RESTRICTED AREA FOR THE FOLLOWING ACTIVITIES: HEATING TAR WELDING AND ACETYLENE TORCHES SMUDGE POTS AND SIMILAR OCCUPATIONAL NEEDS, AND HEATING FOR WARMTH OR OUTDOOR BARBEQUES. OUTSIDE OF RESTRICTED AREAS. OPEN BURNING IS PERMISSIBLE FOR LANDSCAPE WASTES (PLANT MATERIAL). LAND-CLEARING WASTES (PLANT MATERIAL, WITH PRIOR WRITTEN PERMISSION FROM OHIO EPA), AND AGRICULTURAL WASTES (MATERIAL GENERATED BY CROP, HORTICULTURAL, OR LIVESTOCK PRODUCTION PRACTICES. THIS INCLUDES FENCE POSTS AND SCRAP LUMBER, BUT
- NOT BUILDINGS). I DUST CONTROL/SUPPRESSANTS. DUST CONTROL IS REQUIRED TO PREVENT NUISANCE CONDITIONS. DUST CONTROLS MUST BE USED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND NOT BE APPLIED IN A MANNER. WHICH WOULD RESULT IN A DISCHARGE TO WATERS OF THE STATE. ISOLATION DISTANCES FROM BRIDGES, CATCH BASINS, AND OTHER DRAINAGEWAYS MUST BE OBSERVED. APPLICATION (EXCLUDING WATER) MAY NOT OCCUR WHEN PRECIPITATION IS IMMINENT
- AS NOTED IN THE SHORT TERM FORECAST. USED OIL MAY NOT BE APPLIED FOR DUST CONTROL. 2. OTHER AIR PERMITTING REQUIREMENTS: ALL CONTRACTORS AND SUB CONTRACTORS MUST BE MADE AWARE THAT CERTAIN ACTIVITIES ASSOCIATED WITH CONSTRUCTION WILL REQUIRE AIR PERMITS. ACTIVITIES INCLUDING BUT NOT LIMITED TO MOBILE CONCRETE BATCH PLANTS, MOBILE ASPHALT PLANTS, CONCRETE CRUSHERS, LARGE GENERATORS, ETC., WILL REQUIRE SPECIFIC OHIO EPA AIR PERMITS FOR INSTALLATION AND OPERATION. THESE ACTIVITIES MUST SEEK AUTHORIZATION FROM THE CORRESPONDING DISTRICT OF OHIO EPA. NOTIFICATION FOR RESTORATION AND DEMOLITION MUST BE SUBMITTED TO OHIO EPA FOR ALL COMMERCIAL SITES TO DETERMINE IF ASBESTOS CORRECTIVE ACTIONS ARE REQUIRED.
- 13. PROCESS WASTE WATER/LEACHATE MANAGEMENT. ALL CONTRACTORS SHALL BE MADE AWARE THAT OHIO EPA'S CONSTRUCTION GENERAL PERMIT ONLY ALLOWS THE DISCHARGE OF STORM WATER. OTHER WASTE STREAMS/DISCHARGES INCLUDING BUT NOT LIMITED TO VEHICLE AND/OR EQUIPMENT WASHING, LEACHATE ASSOCIATED WITH ON-SITE WASTE DISPOSAL, CONCRETE WASH OUTS, ETC. ARE A PROCESS WASTEWATER. THEY ARE NOT AUTHORIZED FOR DISCHARGE UNDER THE GENERAL STORM WATER PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITIES. ALL PROCESS WASTEWATERS MUST BE COLLECTED AND PROPERLY DISPOSED AT AN APPROVED DISPOSAL FACILITY. IN THE EVENT THERE ARE LEACHATE OUTBREAKS ASSOCIATED WITH ONSITE DISPOSAL, MEASURES MUST BE TAKEN TO ISOLATE THIS DISCHARGE FOR COLLECTION AND PROPER DISPOSAL. INVESTIGATIVE MEASURES AND CORRECTIVE ACTIONS MUST BE IMPLEMENTED TO IDENTIFY AND
- ELIMINATE THE SOURCE OF ALL LEACHATE OUTBREAKS. 14. TRENCH AND GROUND WATER CONTROL - NO SEDIMENT LADEN OR TURBID DISCHARGES FROM ARE PERMITTED TO DISCHARGE TO WATER RESOURCES OR WETLANDS. TRENCH OR GROUND WATER CONTAINING SEDIMENT MUST PASS THROUGH A SEDIMENT SETTLING POND OR OTHER EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE PRIOR TO DISCHARGE. ALTERNATIVELY, SEDIMENT MAY BE REMOVED BY SETTLING IN PLACE OR BY DEWATERING INTO FILTER BAG, SUMP PIT OF EQUALLY EFFECTIVE PRACTICE. GROUND WATER DEWATERING THAT DOES NOT CONTAIN SEDIMENT OR OTHER POLLUTANTS IS NOT REQUIRED TO BE TREATED PRIOR TO DISCHARGE. ENSURE THAT THE NON-SEDIMENT LADEN GROUND WATER DOES NOT
- BECOME POLLUTANT LADEN BY FLOWING OVER DISTURBED SOIL OR POLLUTANT SOURCES 15. PERMIT TO INSTALL (PTI) REQUIREMENTS: ALL CONTRACTORS AND SUB CONTRACTORS MUST BE MADE AWARE THAT A PTI MUST BE SUBMITTED AND APPROVED BY OHIO EPA PRIOR TO THE CONSTRUCTION OF ALL CENTRALIZED SANITARY SYSTEMS, INCLUDING SEWER EXTENSIONS, AND SEWERAGE SYSTEMS (EXCEPT THOSE SERVING ONE, TWO, AND THREE FAMILY DWELLINGS) AND POTABLE WATER LINES. THE ISSUANCE OF AN OHIO EPA CONSTRUCTION GENERAL STORM WATER PERMIT DOES NOT AUTHORIZE THE INSTALLATION OF ANY SEWERAGE SYSTEM WHERE OHIO EPA HAS NOT APPROVED A PTI.



ROCKAWAY Rockaway Civil LLC 10191 Sperry Road Kirtland Ohio 44094





Project Name

Sheet Revision

07-24-25 Project Issue

Sheet Name

SEEDING DATE	SPECIES	LB/1,000 FT ²	LB/ACRE	
	OATS TALL FESCUE ANNUAL RYEGRASS	3 1 1	128 (4 BUSHEL) 40 40	
MARCH 1	PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1 1 1	40 40 40	
TO AUGUST15	ANNUAL RYEGRASS PERENNIAL RYEGRASS CREEPING RED FESCUE KENTUCKY BLUEGRASS	1.25 3.25 0.40 0.40	55 142 17 17	
	OATS TALL FESCUE ANNUAL RYEGRASS	3 1 1	128 (4 BUSHEL) 40 40	
	RYE TALL FESCUE ANNUAL RYEGRASS	3 1 1	112 (2 BUSHEL) 40 40	
AUGUST 16	WHEAT TALL FESCUE ANNUAL RYEGRASS	3 1 1	120 (2 BUSHEL) 40 40	
TO NOVEMBER 1	PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1 1 1	40 40 40	
	ANNUAL RYEGRASS PRENNIAL RYEGRASS CREEPING RED FESCUE KENTUCKY BLUEGRASS	1.25 3.25 0.40 0.40	40 40 40 -	
NOVEMBER 1 TO FEBRUARY 29	USE MULCH ONLY, SODDING PRACTICES, OR DORMANT SEEDING.			

ADDITIONAL TEMPORARY STABILIZATION NOTES:

DISTURBANCE.

- 1. TEMPORARY SEEDING IS REQUIRED FOR ANY AREAS THAT WILL REMAIN IDLE OVER THE WINTER PRIOR TO THE ONSET OF WINTER WEATHER.
- 2. TEMPORARY SEEDING IS REQUIRED WITHIN 2 DAYS OF THE MOST RECENT DISTURBANCE FOR AN AREA WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE
- THAT WILL REMAIN IDLE FOR 14 DAYS OR MORE. 3. TEMPORARY SEEDING IS REQUIRED ON ANY DISTURBED AREA, INCLUDING SOIL STOCKPILES THAT WILL LIE DORMANT FOR MORE THAN 14 DAYS, BUT LESS THAN ONE YEAR AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE WITHIN 7 DAYS OF THE MOST RECENT

TEMPORARY SEEDING SPECIFICATIONS

LB/1,000 FT ² RAL USE 0.50-1.00 0.25-0.50 0.50-1.00 1.00-1.25 2.25 OR CUT SLOPES 1.00-1.25 0.25-0.50 0.50-0.75 0.50-0.75 0.50-0.75	FOR CLOSE MOWING AND FOR WATERWAYS WITH <2.0 FT/SEC VELOCITY DO NOT SEED LATER THAN AUGUST DO NOT SEED LATER THAN
0.50-1.00 0.25-0.50 0.50-1.00 1.00-1.25 2.25 OR CUT SLOPES 1.00-1.25 0.25-0.50 0.50-0.75	FOR WATERWAYS WITH <2.0 FT/SEC VELOCITY DO NOT SEED LATER THAN AUGUST
0.25-0.50 0.50-1.00 1.00-1.25 2.25 OR CUT SLOPES 1.00-1.25 0.25-0.50 0.50-0.75	FOR WATERWAYS WITH <2.0 FT/SEC VELOCITY DO NOT SEED LATER THAN AUGUST
2.25 OR CUT SLOPES 1.00-1.25 0.25-0.50 0.50-0.75 0.50-0.75	AUGUST
0R CUT SLOPES 1.00-1.25 0.25-0.50 0.50-0.75 0.50-0.75	AUGUST
1.00-1.25 0.25-0.50 0.50-0.75 0.50-0.75	AUGUST
0.25-0.50 0.50-0.75 0.50-0.75	AUGUST
0.50-0.75 0.50-0.75	AUGUST
	DO NOT SEED LATER THAN
0.00 0.70	AUGUST
ES AND SWALES	
1.00-1.25	
2.25 0.10	
AWNS	
2.00 2.00	
2.00 1.50	FOR SHADED AREAS
	1.00-1.25 2.25 0.10 AWNS 2.00 2.00 2.00

ADDITIONAL PERMANENT SEEDING REQUIREMENTS:

- 1. PERMANENT SEEDING IS REQUIRED FOR ANY DISTURBED AREA THAT WILL LIE DORMANT FOR ONE YEAR OR MORE WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE. 2. PERMANENT SEEDING IS REQUIRED FOR ANY AREA WITHIN 50 FEET OF A SURFACE WATER
- BODY OF THE STATE AND AT FINAL GRADE WITHIN 2 DAYS OF REACHING FINAL GRADE. 3. PERMANENT SEEDING IS REQUIRED FOR ANY AREA AT FINAL GRADE WITHIN 7 DAYS OF REACHING FINAL GRADE.

PERMANENT SEEDING SPECIFICATIONS

<u>APPENDIX G — SWPPP AMENDMENT LOG</u>

SWPPP CONTA	ACT:		
AMENDMENT NUMBER	DESCRIPTION OF THE AMENDMENT	DATE OF AMENDMENT	AMENDMENT PREPARED BY

APPENDIX I - GRADING AND STABILIZATION ACTIVITIES LOG

PPP CONTACT:				
TE GRADING CTIVITY INITIATED	DESCRIPTION OF GRADING ACTIVITY	DATE GRADING ACTIVITY CEASED (INDICATE TEMPORARY OR PERMANENT)	DATE STABILIZATION MEASURED INITIATED	DESCRIPTION OF STABILIZATION MEASURE AND LOCATION

SPECIFICATIONS FOR CONSTRUCTION ENTRANCE (NOT TO SCALE)

- 1. STONE SIZE-ODOT #2(1.5-2.5 INCH)STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT. WHEN THE CONSTRUCTION ENTRANCE IS PROPOSED IN AN EXISTING PAVED AREA, THE EXISTING PAVEMENT MAY BE UTILIZED IN LIEU OF
- 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: 6. TIMING-THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
- 7. CULVERT-A PIPE OR CULVERT DISCONSTRUCTED 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
- 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

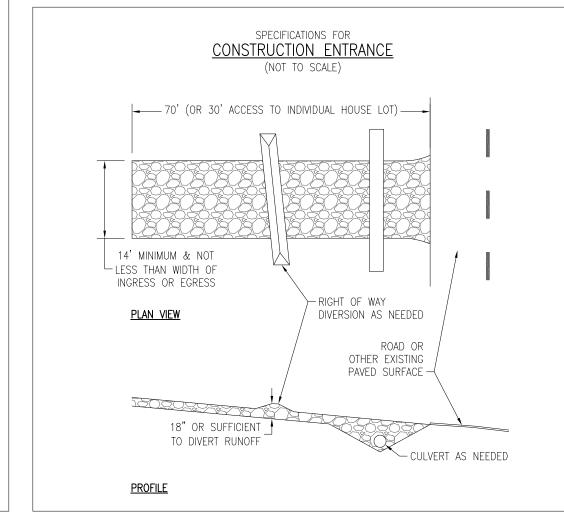
ACCOMPLISHED BY SCRAPING OR SWEEPING.

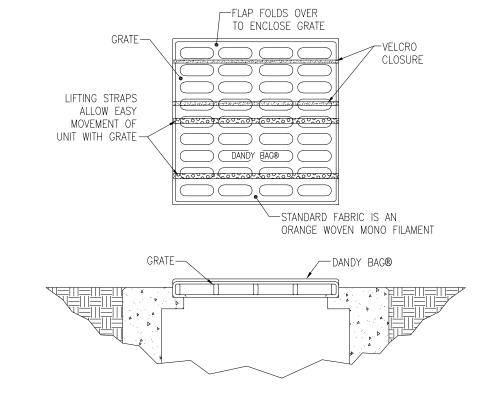
10. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION—SITE SHALL BE RESTRICTED FROM MUDDY AREAS. 11. REMOVAL-THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS

STABILIZED OR REPLACED WITH A

PERMANENT ROADWAY OR ENTRANCE.

GEOTEXTILE SPECIFICATIONS I	FOR CONSTRUCTION ENTRANCE
MINIMUM TENSILE STRENGTH	200 LBS.
MINIMUM PUNCTURE STRENGTH	80 PSI
MINIMUM TEAR STRENGTH	50 LBS.
MINIMUM BURST STRENGTH	320 PSI
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS<0.6 MM
PERMITTIVITY	1X10-3 CM./SEC.





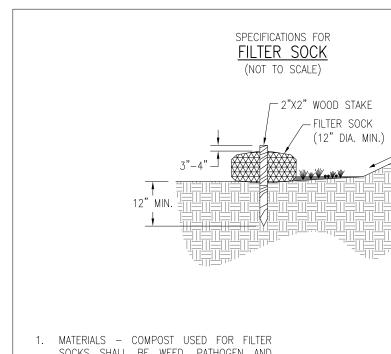
INSTALLATION AND MAINTENANCE GUIDELINES

INSTALLATION: THE EMPTY DANDY BAG® SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN POUCH, ON THE BOTTOM (BELOW-GRADE SIDE) OF THE UNIT. ATTACH ABSORBENT PILLOW TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG® AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS; REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

ADS FLEX-STORM IS AN ACCEPTABLE INLET PROTECTION ALTERNATIVE.

** DANDY BAGS MAY ONLY BE USED FOR INLET PROTECTION WHEN THE DRAINAGE STRUCTURE IS COMPLETELY SURROUNDED BY PAVEMENT.



SOCKS SHALL BE WEED, PATHOGEN AND INSECT FREE AND FREE OF REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. THEY SHALL BE SOURCE OF ORGANIC MATTER AND CONSIST OF PARTICLES RANGING FROM 3/8" TO 2". 2. FILTER SOCKS SHALL BE 3 OR 5 MILL CONTINUOUS, TUBULAR, HDPE 3/8" KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST PASSING THE ABOVE

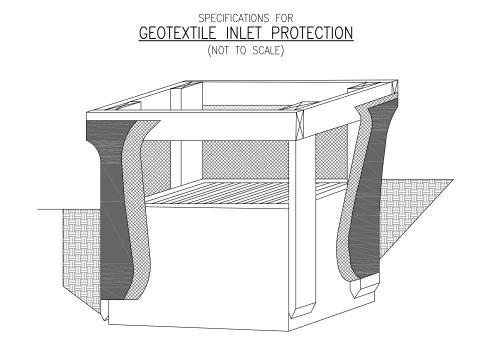
SPECIFICATIONS FOR COMPOST PRODUCTS. 3. FILTER SOCKS WILL BE PLACED ON A LEVEL LINE ACROSS SLOPES, GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS NEEDED MID-SLOPE 4. FILTER SOCKS INTENDED TO BE LEFT AS A

SILT FENCE — BERM —

RUNOFF CHANNELS.

- EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS WHEN THE THE PRACTICE PERMANENT FILTER OR PART OF THE 8. NATURAL LANDSCAPE, SHALL BE SEEDED AT THE TIME OF INSTALLATION OF
- REACH 1/3 OF THE EXPOSED HEIGHT OF . WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE. ESTABLISHMENT OF PERMANENT VEGETATION. 9. REMOVAL - FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN REQUIRED IN SUCH A WAY AS TO FACILITATE AND NOT OBSTRUCT SEEDLINGS.

6. ROUTINELY INSPECT FILTER SOCKS AFTER

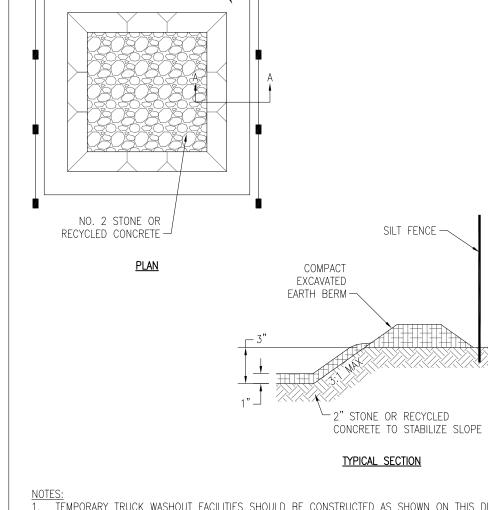


- 1. INLET PROTECTION SHALL BE CONSTRUCTED 5. GEOTEXTILE MATERIAL SHALL HAVE AN EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE INLET BECOMES FUNCTIONAL.
- 2. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH OF AT LEAST 18 INCHES. 3. THE WOODEN FRAME SHALL BE
- CONSTRUCTED OF 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
- 8. STRUCTURES IN NEED ON INLET PROTECTION 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.
- 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. 6. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6-INCH LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP FLEVATION ON SIDES. 7. A COMPACTED EARTH DIKE OR CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A SDEPRESSION.THE TOP OF THE DIKE SHALL BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME

IN PAVEMENT AREAS ARE TO USE DANDY

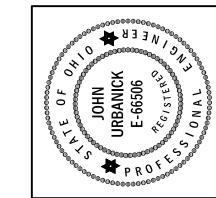
BAGS OR FILTER SOCK TYPE INLET

PROTECTION.



TEMPORARY TRUCK WASHOUT FACILITIES SHOULD BE CONSTRUCTED AS SHOWN ON THIS DETAIL. THE QUANTITY AND VOLUME SHOULD BE SUFFICIENT TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. THE WASHOUT AREA SHALL BE LOCATED ADJACENT TO A STABILIZED DRIVE/AREA. CONCRETE WASTE SHALL BE CLEANED OUT PERIODICALLY TO MAINTAIN AN ADEQUATE VOLUME. 4. FOLLOWING CONSTRUCTION, THE WASHOUT SHALL BE REMOVED BY CONTRACTOR.

> TEMPORARY CONCRETE WASHOUT DETAIL NOT TO SCALE

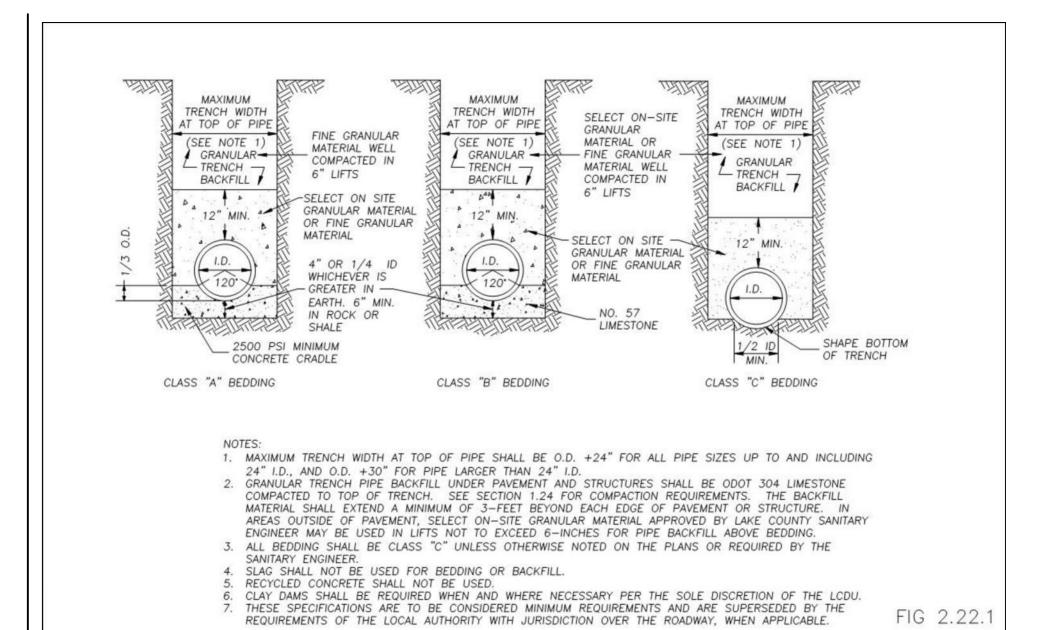






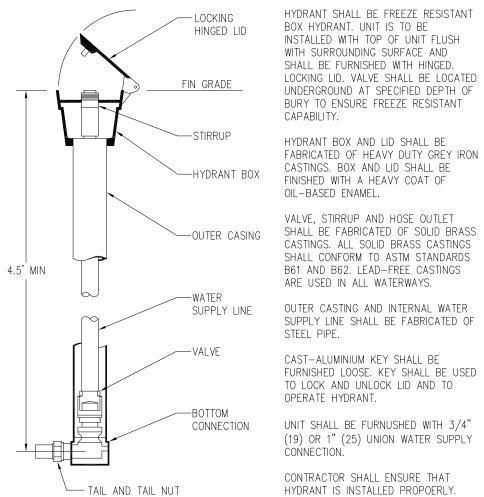


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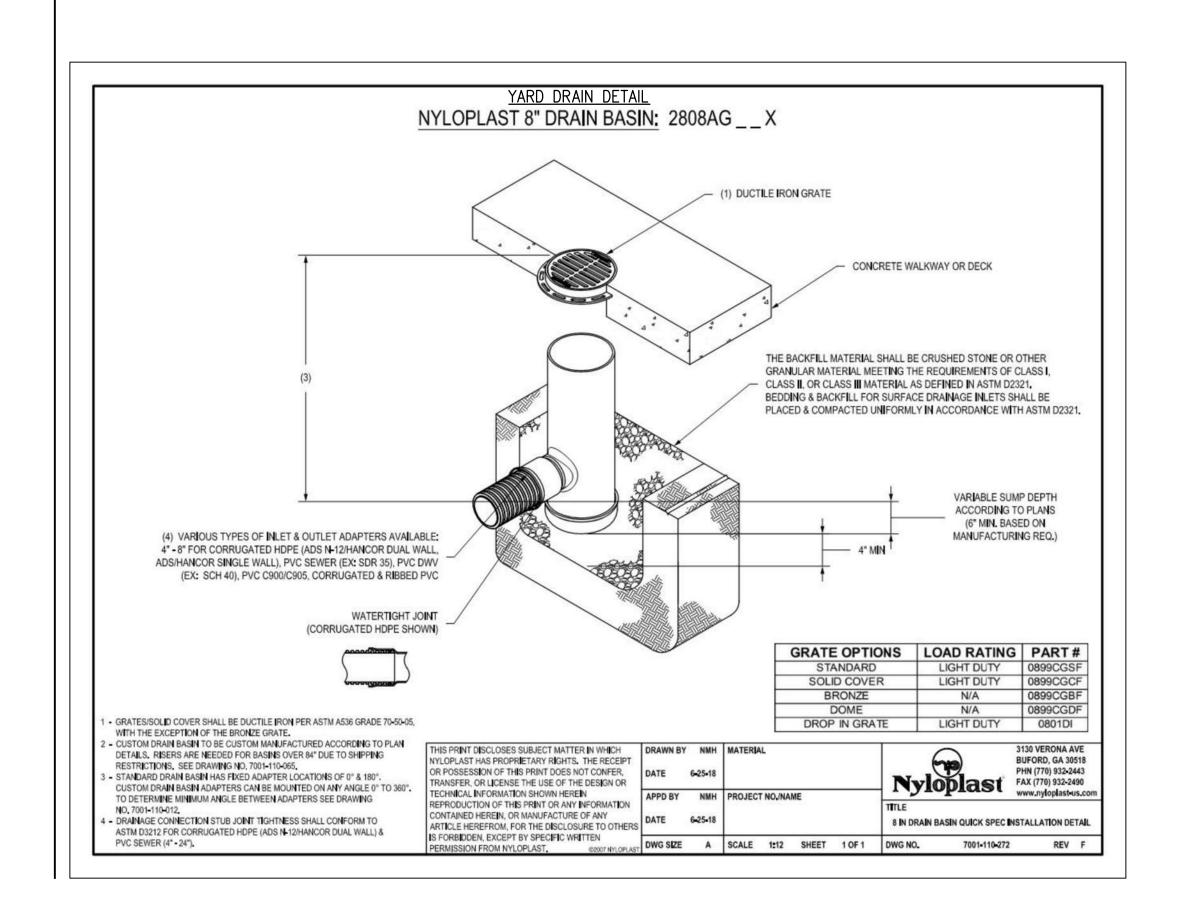


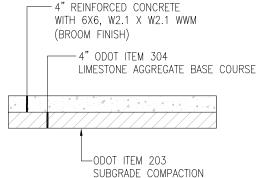
FOR WATER ONLY SEE FIG 3.17.1 FOR SANITAARY

LAKE COUNTY DEPARTMENT OF UTILITIES TRENCH AND BEDDING DETAILS DATE: 6-16 DRAWN BY: DDB SCALE: NONE



NON-FREEZE GROUND HYDRANT





CONCRETE WALK DETAIL

CONCRETE PAVING NOTES 1. PROVIDE EXPANSION JOINTS AT 25' MAX SPACING 2. PROVIDE CONTRACTION JOINTS TO A DEPTH 1/4 THICKNESS AT

8' MAX SPACING 3. CONTRACTION JOINTS AT LIMITS OF CONCRETE SHALL BE

_____JOINT SEALER

TYPE 6 CONCRETE CURB DETAIL

CURB RAMP WITH DETECTABLE WARNINGS NOTES

1. THE ADJACENT SURFACES AR TRANSITIONS AT CURB RAMPS TO WALKS, GUTTERS, AND STREETS, SHALL BE AT THE SAME LEVEL. WHERE PROVIDED, CURB RAMP FLARES SHALL NOT BE STEEPER THAN 10:1 & A LANDING SHALL BE PROVIDED AT THE TOP OF THE CURB RAMP. THE LANDING CLEAR LENGTH SHALL BE 36 INCHES

3. IN AREAS WHERE THERE IS NO LANDING AT THE TOP OF THE CURB RAMP, CURB RAMP FLARES SHALL NOT BE STEEPER THAN 13:1.

4. CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED

EDGES SHALL HAVE EDGES PARALLEL TO THE DIRECTION OF

7. DETECTABLE WARNINGS SHOULD BE INCLUDED IN ALL CONNECTIONS TO ALL STREET CROSSINGS TO MARK THE STREET EDGE, WHERE A

DRIVEWAYS BUT SHOULD BE INCLUDED AT SIGNALIZED DRIVEWAYS AND OTHER HIGH-VOLUME DRIVEWAYS THAT ARE SIMILAR TO A

9. DETECTABLE WARNINGS SHOULD BE 24" WIDE AND SPAN THE WIDTH OF THE RAMP, TURNING SPACE, OR SHARED PATH. 10. DETECTABLE WARNINGS SHOULD BE ALIGNED WITH THE PEDESTRIAN

11. DETECTABLE WARNINGS SHOULD CONTRAST IN COLOR WITH THE

8. DETECTABLE WARNINGS ARE NOT REQUIRED AT UNSIGNALIZED

WITHIN THE MARKINGS, EXCLUDING ANY FLARES. 5. CURB RAMPS WITH RETURNED CURBS OR OTHER WELL-DEFINED

SIDEWALK CROSSES A VEHICULAR WAY.

SURROUNDING CURB RAMP SURFACE.

PEDESTRIAN FLOW.

ACCESS ROUTE.

705.01 OR 705.02*

PAVEMENT

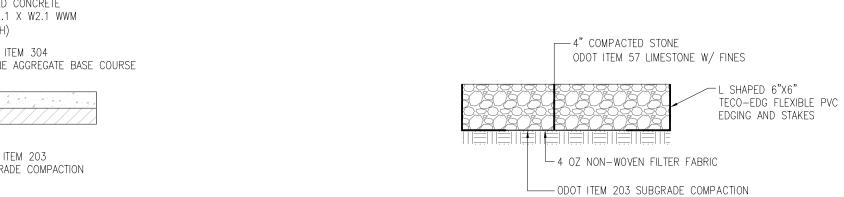
- PREFORMED JOINT

MATERIAL, 705.03*

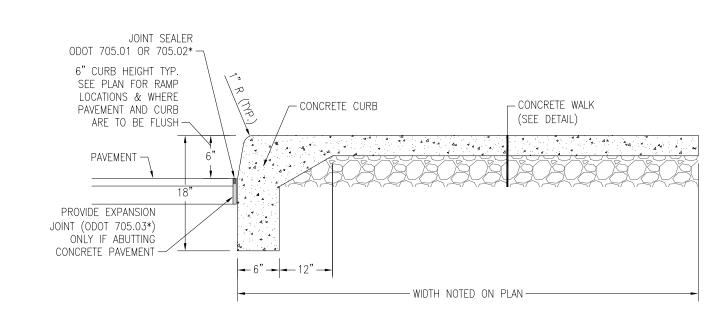
SURFACE OF PAVEMENT

PERPENDICULAR TO THE EDGES OF THE CONCRETE SURFACES 4. SUBMIT JOINT SPACING PLAN TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.

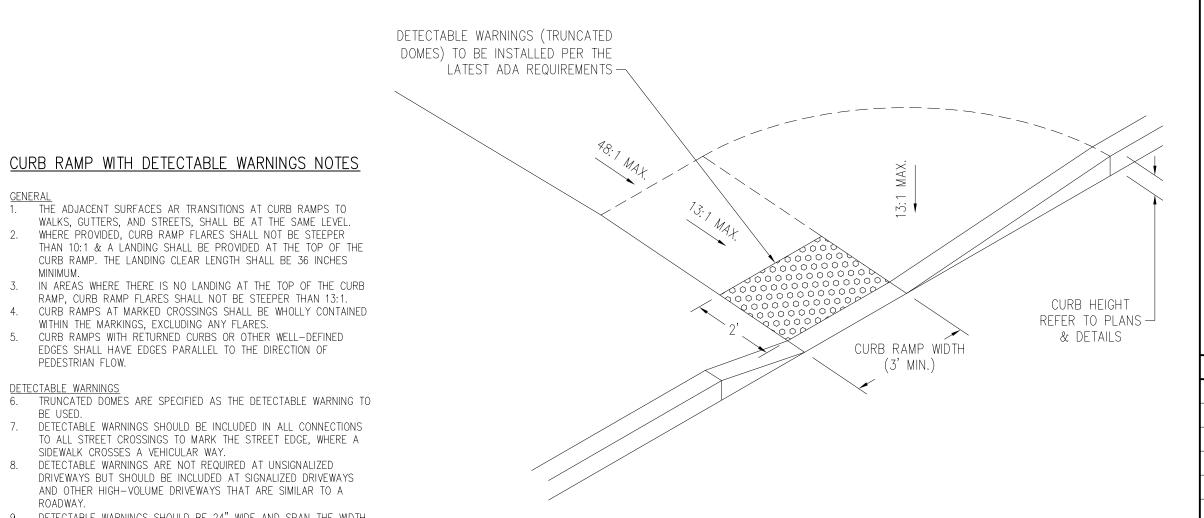
NTS



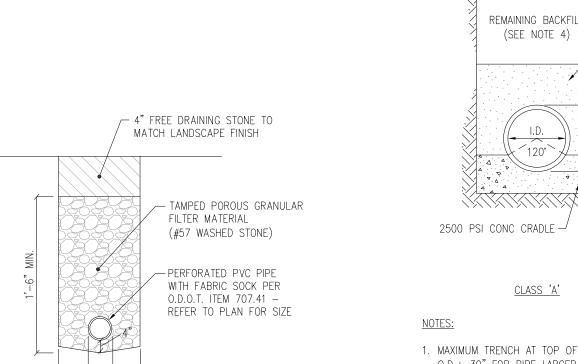
STONE PAVEMENT DETAIL



CONCRETE INTEGRAL CURB AND WALK DETAIL

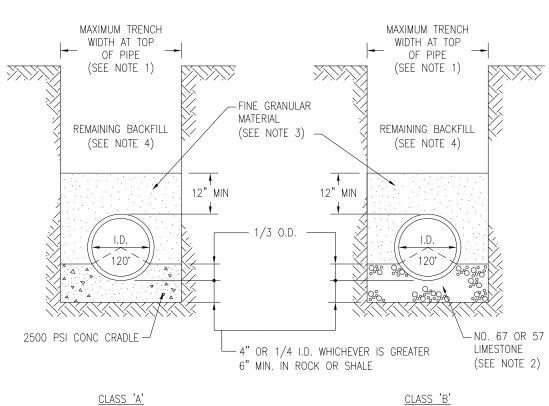


FLARED CURB RAMP (NO LANDING) WITH DETECTABLE WARNINGS DETAILS



MAINTAIN POSITIVE DRAINAGE ON THE UNDERDRAIN TO OUTLET AS SHOWN ON PLANS.

TYPICAL UNDERDRAIN DETAIL

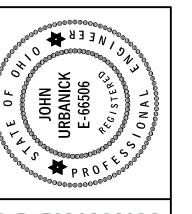


1. MAXIMUM TRENCH AT TOP OF PIPE SHALL BE O.D.+ 24" FOR ALL PIPES UP TO AND INCLUDING 24" I.D.; O.D.+ 30" FOR PIPE LARGER THAN 24" I.D. TO 66" I.D.; AND O.D.+ 48" FOR PIPE SIZES 72" AND OVER. 2. PIPE BEDDING SHALL BE NO. 67 OR NO. 57 LIMESTONE.

3. PIPE BACKFILL SHALL BE NO. 67 OR NO. 57 LIMESTONE TO 12" ABOVE TOP OF PIPE.

4. ALL BACKFILL SHALL BE TAMPED WITH MACHINE MOUNTED TAMPING EQUIPMENT. NO FLOODING, JETTING OR PUDDLING OF BACKFILL WILL BE PERMITTED. BACKFILL SHALL BE COMPLETED TO 100% OF MAXIMUM LABORATORY DRY DENSITY PER ASTM D698. REMAINING TRENCH BACKFILL SHALL BE PREMIUM FILL (LIMESTONE SCREENINGS) TO TOP OF TRENCH UNDER PAVEMENT. 5. ALL BEDDING SHALL BE CLASS 'B' UNLESS OTHERWISE NOTED ON THE PLANS OR AUTHORIZED BY THE

6. SLAG SHALL NOT BE USED. 7. CLAY DAMS SHALL BE REQUIRED WHEN AND WHERE NECESSARY PER PLAN OR AS DIRECTED BY THE



ROCKAWAY Rockaway Civil LLC 10191 Sperry Road Kirtland Ohio 44094 440 655 8182 www.rockawaycivil.com





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DETAILS

Sheet Name

GENERAL CONSTRUCTION NOTES:

1. GENERAL

- A. ALL WORK SHALL CONFORM TO THE APPLICABLE LOCAL CODES. (2019 RCO (IRC 2018) WITH CITY/COUNTY AMENDMENTS) B. WHERE APPLICABLE, ALLOWABLE STRESSES HAVE BEEN INCREASED 15% FOR SNOW, 33% SEISMIC AND 33% FOR WIND AND
- SEISMIC CONNECTIONS (TIMBER).
- C. ALL CODES AND STANDARDS SHALL BE THE MOST CURRENT EDITION AS OF THE DATE OF THE CALCULATIONS. D. THE ENGINEER IS RESPONSIBLE FOR THE STRUCTURAL ITEMS IN THE PLANS ONLY. SHOULD ANY CHANGES BE MADE FROM THE DESIGN AS DETAILED IN THESE CALCULATIONS WITHOUT WRITTEN APPROVAL FROM THE ENGINEER THEN THE ENGINEER ASSUMED NO RESPONSIBILITY FOR THE ENTIRE STRUCTURE OR ANY PORTION THEREOF. SHOULD THE RESULTS OF THE CALCULATIONS NOT BE FULLY OR PROPERLY TRANSFERRED
- TO THE PLANS, THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE STRUCTURE. E. THESE CALCULATIONS ARE BASED UPON A COMPLETED STRUCTURE. SHOULD AN UNFINISHED STRUCTURE BE SUBJECTED TO LOADS,
- THE ENGINEER SHOULD BE CONSULTED FOR AN INTERIM DESIGN OR IF NOT, WILL ASSUME NO RESPONSIBILITY. F. THE DETAILS SHOWN ON THE DRAWINGS ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS.

2. SITE WORK

- A. BUILDING SITES ARE ASSUMED TO BE DRAINED AND FREE OF CLAY OR EXPANSIVE SOIL. THESE CALCULATIONS ASSUME STABLE, UNDISTURBED SOILS AND LEVEL OR STEPPED FOOTINGS. ANY OTHER CONDITIONS SHOULD BE REPORTED TO THIS ENGINEER. B. FOUNDATIONS SHALL BEAR ON NON-EXPANSIVE NATIVE SOIL OR COMPACTED STRUCTURAL FILL. ANY LOOSE SOIL IN THE BOTTOM OF THE
- FOOTING EXCAVATIONS SHALL BE COMPACTED TO AT LEAST 90% RELATIVE COMPACTION OR REMOVED TO EXPOSE FIRM, UNYIELDING MATERIAL. C. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL. D. ALL FINISHED GRADE IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL BE SLOPED AWAY FROM BUILDING AT A SLOPE OF NOT, LESS THAN
- 6" (5 PERCENT SLOPE) IN THE FIRST 10 FEET MEASURED PERPENDICULAR TO THE FACE OF THE WALL. IMPERVIOUS SURFACES WITHIN 10 FEET OF THE BUILDING SHALL BE SLOPED A MINIMUM OF 2 PERCENT AWAY FROM THE BUILDING.
- E. THIS ENGINEER HAS NOT MADE A GEOTECHNICAL REVIEW OF THE BUILDING SITE AND IS NOT RESPONSIBLE FOR GENERAL SITE STABILITY OR SOIL SUITABILITY FOR THE PROPOSED PROJECT.

3. FILL & BACKFILL

- A. FILL MATERIAL SHALL BE FREE FROM DEBRIS, VEGETATION AND OTHER FOREIGN SUBSTANCES. B. BACKFILL TRENCHES SHALL BE COMPACTED TO 90% DENSITY PER ASTM D1557 TO WITHIN 12" OF FINISHED GRADE. TO TOP 12" SHALL BE
- C. BACKFILL AT PIPE TRENCHES SHALL BE COMPACTED ON BOTH SIDES OF PIPE IN 6" LIFTS. D. WATERPROOF EXTERIOR FACES OF ALL FOUNDATION WALL ADJACENT TO USABLE SPACES.
- E. BACKFILL AT FOUNDATION WALL SHALL BE COMPACTED TO 90% RELATIVE DENSITY, UNO.
- F. USE 4" DIAMETER PVC, UNO, PERFORATED PIPE SUB-DRAIN BEHIND ALL RETAINING WALLS. SLOPE PIPE TO DRAIN TO DAYLIGHT AND DRYWALL.

4. CONCRETE / MASONRY

- A. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI, UNO. ALL DECK FOOTINGS SHALL HAVE A MINIMUM OF 3000 PSI FOR ALL CONCRETE AND 3500 PSI FOR ALL SLABS ON GRADE, UNO. B. CONCRETE SHALL BE AIR ENTRAINED TO NOT LESS THAN 5% AND NOT MORE THAN 7%.
- . WATERPROOFING OF FOUNDATION IS THE RESPONSIBILITY OF THE OWNER.
- REINFORCEMENT SHALL BE GRADE 40 AS PER ASTM A615 UNO. LAP REINFORCING BAR SPLICES 40 BAR DIAMETERS, UNO. E. REINFORCEMENT COVER IN CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOW:
- 3' CONCRETE CAST AGAINST PERMANENTLY EXPOSED TO EARTH.
- 1 ½" CONCRETE EXPOSED TO EARTH OR WEATHER WITH #5 BARS OR SMALLER. 1 $\frac{1}{2}$ " - CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND, #11 BARS AND SMALLER.
- $1\frac{1}{2}$ " BEAMS, COLUMNS AND PLASTER, COVER OVER TIES.
- $1\frac{1}{2}$ " CLEAR TO TOP FOR REINFORCEMENT IN SLABS ON GRADE. F. REIÑFORCES CONCRETE SHALL CONFORM TO APPLICABLE REQUIREMENTS OF CBC AND ACI STANDARDS.
- G. AGGREGATE SHALL CONFORM TO ASTM C33 FOR STONE AGGREGATE. H. USE NORMAL WEIGHT CONCRETE (145 PCF) FOR ALL CONCRETE, UNO. USE TYPE 11 CEMENT, UNO. USE TYPE V CEMENT IF SOIL
- CONTAINS SULFATE CONCENTRATIONS OF 0.2% OR MORE.
- 1. IN HOT WEATHER, FOLLOW "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING", ACI 305. 2. IN COLD WEATHER, FOLLOW "TOWN OF MAMMOTH AND MONO COUNTY CONCRETE COLD WEATHER PROTECTION POLICIES BASED
- ON RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING" ACI 306. J. ALL REINFORCING STEEL AND ANCHOR BOLTS SHALL BE ACCURATELY LOCATED AND ADEQUATELY SECURED IN POSITION BEFORE AND
- DURING PLACEMENT OF CONCRETE. K. ALL DETAILS OF FABRICATION AND INSTALLATION OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE ACI MANUAL OF STANDARD PRACTICE.

5. FRAMING / LUMBER

- A. ROOF PLYWOOD THICKNESS IS PER APA LOAD TABLES BASED UPON ROOF LIVE LOAD AND FRAMING SPACING.
- APPLY FACE GRAIN PERPENDICULAR TO FRAMING, STAGGER PANELS. B. PLYWOOD SHALL CONFORM TO APA, PS 1. SHEAR PLYWOOD SHALL BE 'EXPOSURE I' C-D OR C-C.
- ALTERNATE SHEATING PERMANENTLY EXPOSED TO WEATHER AND/OR MOISTURE SHALL BE RATED 'EXTERIOR'. C. FLOOR JOISTS SHALL BE DOUGLAS FIR #2 MIN.
- D. ALL FOUNDATION STILL PLATES, NAILERS AND LEDGERS IN DIRECT CONTACT WITH CONCRETE AND WITHIN 8" OF GROUND
- SHALL BE PRESSURE TREATED SPF OR HEM FIR. E. ALL FRAMING LUMBER SHALL BE SPF #1/#2 WITH MOISTURE CONTENT LESS THAN 19%, UNO.
- F. SPLICE ALL BEAMS OVER SUPPORTS OR SAWCUT TOP 1/3 AT SUPPORT (NOT @ CANTILEVERS), UNO. G. WHERE POSTS WITH COLUMN CAPS, STRAPS OR BEARING PLATES ARE CALLED OUT FOR, THE LOAD IS TO BE TRANSFERRED TO THE FOUNDATION
- WITH POSTS AS SPECIFIED AND SOLID VERTICAL GRAIN BLOCKING SHALL BE PROVIDED @ ALL FLOOR LEVELS DOWN TO THE FOUNDATION, UNO. H. ALL BUILT UP, LAMINATED DOUBLE OR MULTIPLE 2X JOISTS AND BEAMS SHALL BE NAILED TOGETHER WITH (3) ROWS PF 16D NAILS AT 12" OC. STAGGERED, UNO. THREE PIECE MEMBERS SHALL BE NAILED FROM EACH SIDE.
- I. ALL 4X AND 6X POSTS, COLUMNS AND HEADERS SHALL BE D.F. #1 OR BETTER, UNO. ALL OTHER 4X AND 6X FRAMING MEMBERS SHALL BE
- D.F. #2 OR BETTER, UNO. J. ALL FRAMING MEMBERS SPECIFIED IN THESE CALCULATIONS ARE MINIMUMS, AND LARGER MEMBERS MAY BE SUBSTITUTED. K. ALL FLOOR OPENINGS SHALL BE BETWEEN JOISTS, UNO.
- L. DO NOT DRILL HOLES, NOTCH OR CUT INTO BEAMS, STUDS AND JOISTS UNLESS DETAILED ON THE PLANS. M. WHERE PRESERVATIVE TREATED WOOD IS USED IN ENCLOSED LOCATIONS WHERE DRYING CANNOT OCCUR SUCH WOOD NEEDS MOISTURE CONTENT OF 19 PERCENT OR LESS BEFORE BEING COVERED.

6. HARDWARE / STRUCTURAL STEEL

- A. CORROSION-RESISTANT FASTENERS IN TREATED WOOD
- B. ALL HARDWARE SPECIFIED SHALL BE SIMPSON STRONG-TIE CO. (OR EQUAL) INSTALLED PER MANUFACTURER'S SPECIFICATIONS, UNO. C. STRUCTURAL STEEL SHALL CONFORM TO ASTM A36, UNO. PIPE COLUMNS SHALL CONFORM TO ASTM A53, TYPE E OR S, UNO.
- TUBE SECTIONS SHALL CONFORM TO ASTM 500, GRADE B, UNO. D. ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY SPECIFICATIONS. ALL WELDING SHALL BE DONE BY WELDERS CERTIFIED BY
- THE LOCAL BUILDING AUTHORITY. ALL SHOP WELDING SHALL BE IN AN APPROVED FABRICATORS SHOP AUTHORIZED BY THE LOCAL BUILDING AUTHORITY OR SPECIAL INSPECTION.
- E. ALL WELDING ELECTRODES SHALL BE E70XX OR SHIELDED WIRES WITH FY GREATER THAN 7ØKSI. F. ALL NAILS SPECIFIED ARE COMMON NAILS. NO SUBSTITUTIONS UNLESS SPECIFIED ON PLANS OR IN THESE CALCULATIONS OR APPROVED IN
- WRITING BY ENGINEER. FOR ALL HARDWARE SPECIFIED, USE NAILS OR BOLTS PER MANUFACTURER'S RECOMMENDATIONS. G. ALL BOLTS SPECIFIED MUST MEET ASTM 1307. BOLT HOLES SHALL BE 1/32" TO 1/16" LARGER THAN THE SPECIFIED BOLT.
- WASHERS SHALL BE USED AT EACH BOLT HEAD AND NUT NEXT TO WOOD. ALL WASHERS TO BE NOT LESS THAN STANDARD CUT WASHERS.

STRUCTURAL/DESIGN NOTES

- SOIL BEARING ALLOWABLE ASSUMED TO BE 1500 PSF. ALL EXTERIOR FOOTINGS SHALL BE PLACED 42" BELOW GRADE.
- ALL FOOTING SHALL ALSO BE EMBEDDED DEEP ENOUGH THAT A 5' MIN HORIZONTAL DISTANCE TO DAYLIGHT IS ATTAINED.
- COORDINATE W/ CIVIL DRAWINGS FOR FINAL LOCATION AND DIMENSIONS OF STRUCTURES AND FOUNDATIONS.
- REFERENCE LAKE METROPARKS DRAWINGS FOR WOOD FRAME TRELLIS, WALKWAY, AND WEDDING ARBOR LAYOUT DETAILS & COORDINATE W/ LAKE METROPARKS FOR SLAB FINISH.

DUE TO VARIATIONS IN TEMPERATURE AND SOIL CONTENT, MINOR MOVEMENT OF THE SLAB MAY OCCUR WITHOUT INSTALLATION OF ADDITIONAL MEASURES TO PROVIDE FROST PROTECTION.

NOTES TO SUBMITTER

THE SUBMITTER IS RESPONSIBLE FOR ALL SITE SPECIFIC REQUIREMENTS, INCLUDING FLOOD PLAIN ZONES, FIRE WILDLAND URBAN INTERFACE REQUIREMENTS, EROSION CONTROL REQUIREMENTS AND ANY SIMILAR REQUIREMENTS.

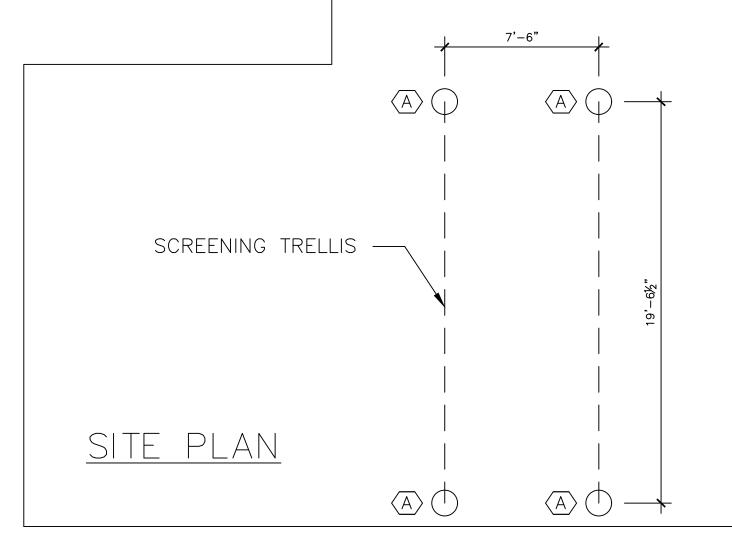
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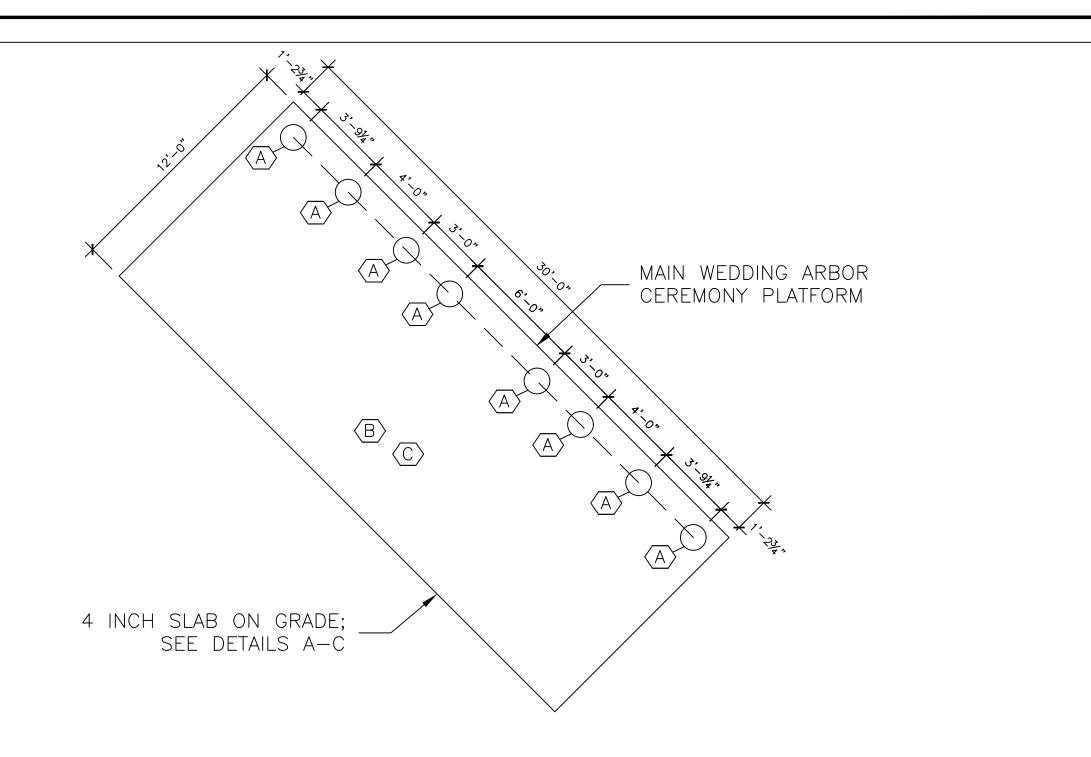
1500 PSF

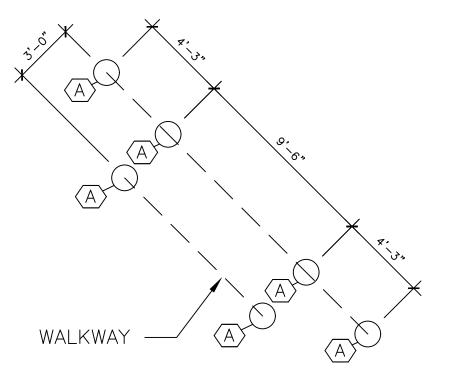
DESIGN CRITERIA

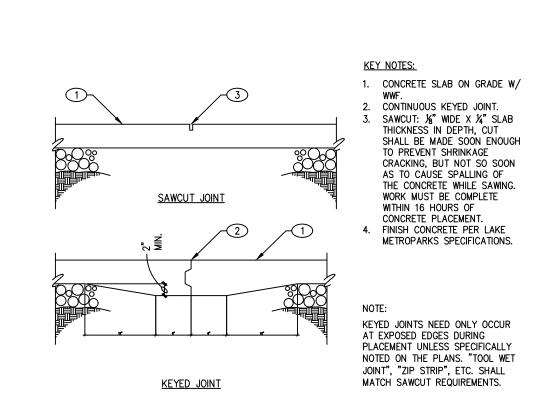
SOIL BEARING CAPACITY:

CODE:	2024 OHIO BUILDING CO
ROOF LOAD:	5 PSF
ROOF LIVE LOAD:	20 PSF
GROUND SNOW LOAD:	30 PSF
EXPOSURE FACTOR:	1.0
SNOW IMPORTANCE FACTOR:	1.0
THERMAL FACTOR:	1.2
SNOW DRIFT:	PER CODE
ULTIMATE WIND SPEED:	115 MPH
RISK CATEGORY:	11
EXPOSURE CATEGORY:	Ċ
SITE CLASS:	D
SFISMIC DESIGN CATEGORY:	B
SEISMING DESIGNA GATEGORA.	<u> </u>

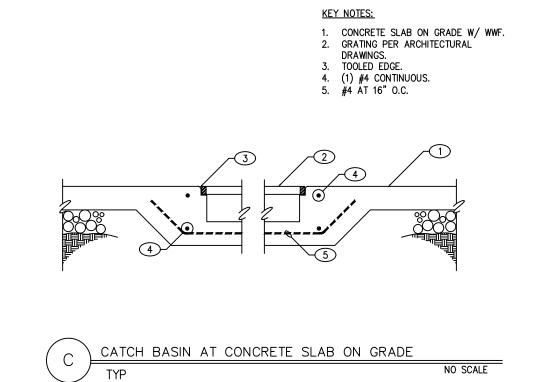


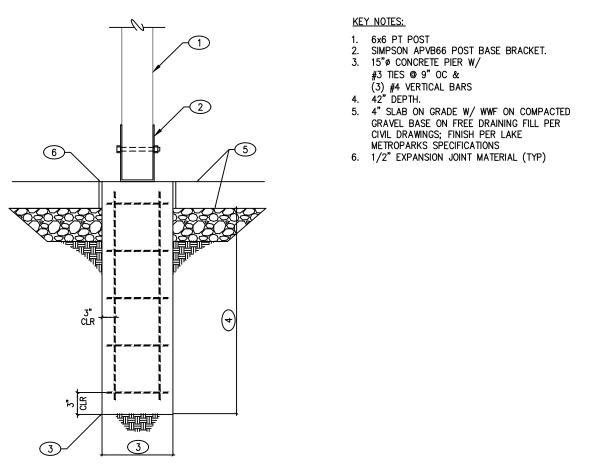




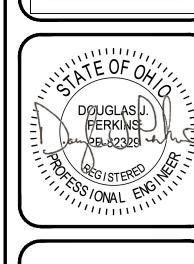








POST BASE & PIER FOOTING NO SCALE



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