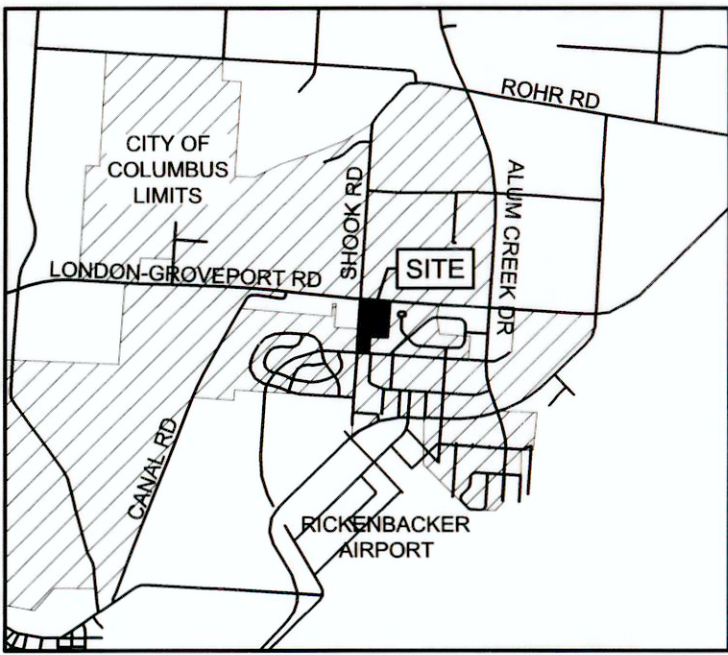


CITY OF COLUMBUS, OHIO

DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

IMPROVEMENTS OF
SHOOK ROAD
FROM S.R. 317 (LONDON-GROVEPORT RD.) TO JOHN GLENN AVE.
S.R. 317 (LONDON-GROVEPORT RD.)
FROM SHOOK RD. TO A POINT APPROXIMATELY 720' EAST OF SHOOK RD.



VICINITY MAP
NOT TO SCALE



2018 SPECIFICATIONS

THE CITY OF COLUMBUS CONSTRUCTION AND MATERIALS SPECIFICATIONS (CMSC), 2018 EDITION, INCLUDING ALL REVISIONS AND SUPPLEMENTS IN EFFECT, AT THE TIME OF SIGNATURE BY THE DIRECTOR OF PUBLIC SERVICE, SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THE PLANS UNLESS NOTED OTHERWISE.

CITY OF COLUMBUS APPROVALS

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

<i>ML</i>	<i>FOR SDT</i>	6/29/2020
CITY ENGINEER/ADMINISTRATOR, DIVISION OF DESIGN AND CONSTRUCTION	DATE	
<i>Chad Holtzappel for Patricia Austin</i>	6/24/2020	
ADMINISTRATOR, DIVISION OF POWER	DATE	
<i>JPH</i>	<i>John G. Munsom I GR</i>	6/24/2020
ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE	DATE	
<i>JRM</i>	<i>Jeffrey M. ...</i>	6/24/2020
ADMINISTRATOR, DIVISION OF WATER	DATE	
<i>Don E. Evans for Paul Rakosky</i>	6/18/2020	
DIRECTOR, DEPARTMENT OF RECREATION AND PARKS	DATE	
<i>W. Willie Loper</i>	6/19/2020	
FIRE PREVENTION BUREAU, DIVISION OF FIRE	DATE	

FRANKLIN COUNTY APPROVALS

SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS. APPROVAL ON THE PART OF THE FRANKLIN COUNTY ENGINEER'S OFFICE IS GIVEN FOR WORK WITHIN THE FRANKLIN COUNTY R/W ONLY.

<i>W.F.</i>	<i>Connell R. Robinson</i>	<i>5/4/2020</i>
FRANKLIN COUNTY ENGINEER	DATE	
<i>W. F. R.</i>	<i>05/04/2020</i>	
FRANKLIN COUNTY CHIEF DEPUTY ENGINEER	DATE	

REV NO	REVISION DESCRIPTION	SHEETS	INITIAL	DATE

SUMMARY OF POST-CONSTRUCTION STORMWATER CONTROL FACILITIES (PER CC-18509)				
CONTROL/ OUTLET STRUCTURE No.	PLAN VIEW & DETAIL PAGE NUMBERS	CONTROL FUNCTION	DRAINAGE AREA TO CONTROL FACILITY (ACRES)	FACILITY TYPE
N/A	N/A	N/A	N/A	N/A

100 YEAR STORMWATER STORAGE SUMMARY (PER CC-18509)				
LOCATION	VOLUME REQUIRED (CF)	VOLUME PROVIDED (CF)	100-YEAR ELEV (NAVD88)	ELEVATION PROVIDED
N/A	N/A	N/A	N/A	N/A

PROJECT DESCRIPTION

WIDENING OF SHOOK ROAD FROM JOHN GLENN AVE TO S.R. 317 (LONDON-GROVEPORT RD) TO PROVIDE A 4' PAVED SHOULDER ON THE EAST SIDE OF THE ROAD. CONSTRUCTION OF SIDEWALK IN THE RIGHT-OF-WAY ALONG SHOOK ROAD FROM JOHN GLENN AVE TO S.R. 317 (LONDON-GROVEPORT RD) AND ALONG S.R.317 (LONDON-GROVEPORT RD) TO THE EASTERN PROPERTY LINE OF THE SITE. CONSTRUCTION OF THREE ENTRANCE DRIVES TO THE SITE, TWO ALONG SHOOK ROAD AND ONE ALONG S.R. 317 (LONDON-GROVEPORT RD) RESTRICTING INBOUND LEFT TURNS.

NOTE: ADDITIONAL SWPPP INFORMATION MAY BE DETAILED ON CC-18509

OWNER	DEVELOPER
COLUMBUS STS, LLC 4400 POST OAK PARKWAY HOUSTON, TX 77027 CONTACT: BRIAN McMACKIN PHONE: (713) 961-4488 EMAIL: BRIAN@PINCHAL-CO.COM	ARCO DESIGN/BUILD MIDWEST INC. 101 WEST OHIO STREET, SUITE 1150 INDIANAPOLIS, INDIANA 46204 CONTACT: DAMON HOOD PHONE: (317) 308-2700 EMAIL: DHOOD@ARCOCB.COM

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BENCHMARKS (NAVD 88)

ELEVATION SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, AS ESTABLISH UTILIZING GPS OPUS SOLUTION

FCGS 9930
FRANKLIN COUNTY SURVEY CONTROL. ALUMINUM DISK IN CONCRETE MONUMENT SET OVER FOUND STONE. AT THE CENTERLINE INTERSECTION OF S.R. 317 (LONDON-GROVEPORT RD) AND SHOOK ROAD, ACCESS THROUGH F.C. ROAD MONUMENT BOX. MONUMENT IS THE SOUTH 1/4 CORNER SECTION 36 T4N R22W, AND THE NORTH 1/4 CORNER SECTION 1 T3N R22W CONGRESS LANDS EAST OF THE SCIOTO. DISK IS STAMPED AS PER BLM MANUAL.
NORTHING: 667058.140 EASTING: 1843651.730 ELEVATION = 744.605 (NAVD 88)

TBM 1
"X" ON ARROW CAP BOLT OF FIRE HYDRANT LOCATED ON THE SOUTHEAST CORNER OF JOHN GLENN AVE AND SHOOK ROAD.
ELEVATION = 750.535 (NAVD 88)

TBM 2
COTTON GIN SPINDLE IN POWER POLE LOCATED ON THE NORTH SIDE OF JOHN GLENN AVE BETWEEN THE PRIVATE DRIVE FOR THE INDUSTRIAL PROPERTY AND MAPLE ROAD.
ELEVATION = 746.325 (NAVD 88)

TBM 3
"L" CHISELED ON THE NORTH EDGE OF CONCRETE AROUND THE WEST FORCE MAIN MANHOLE AT THE SOUTHEAST CORNER OF INTERSECTION OF SHOOK ROAD AND S.R. 317 (LONDON-GROVEPORT RD).
ELEVATION = 744.965 (NAVD 88)

TBM 4
MAG NAIL IN NORTH SIDE OF POWER POLE LOCATED ON THE SOUTH SIDE OF S.R. 317 (LONDON-GROVEPORT RD) JUST EAST OF THE PROJECT SITE.
ELEVATION = 746.045 (NAVD 88)

BASIS FOR BEARINGS

BEARINGS DESCRIBED HEREON ARE BASED ON SOUTH 86 DEGREES 02 MINUTES 52 SECONDS EAST FOR THE CENTERLINE OF S.R. 317 (LONDON-GROVEPORT ROAD) ESTABLISHED BY FIELD OBSERVATION HOLDING FRANKLIN COUNTY SURVEY CONTROL MONUMENTS 9930 AND 9961, MEASURED FROM GRID SOUTH, REFERENCED TO THE OHIO STATE PLANE COORDINATE SYSTEM (SOUTH ZONE) AND THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION.

BASIS OF STATIONING - SHOOK ROAD

SHOOK ROAD CENTERLINE STATIONING IS BASED ON THE FRANKLIN COUNTY SURVEY CONTROL MONUMENT SET AT THE INTERSECTION OF SHOOK ROAD AND S.R. 317 (LONDON-GROVEPORT RD). (STA. 10+00.00, DESCENDING SOUTHERLY)

BASIS OF STATIONING - S.R. 317 (LONDON-GROVEPORT RD)

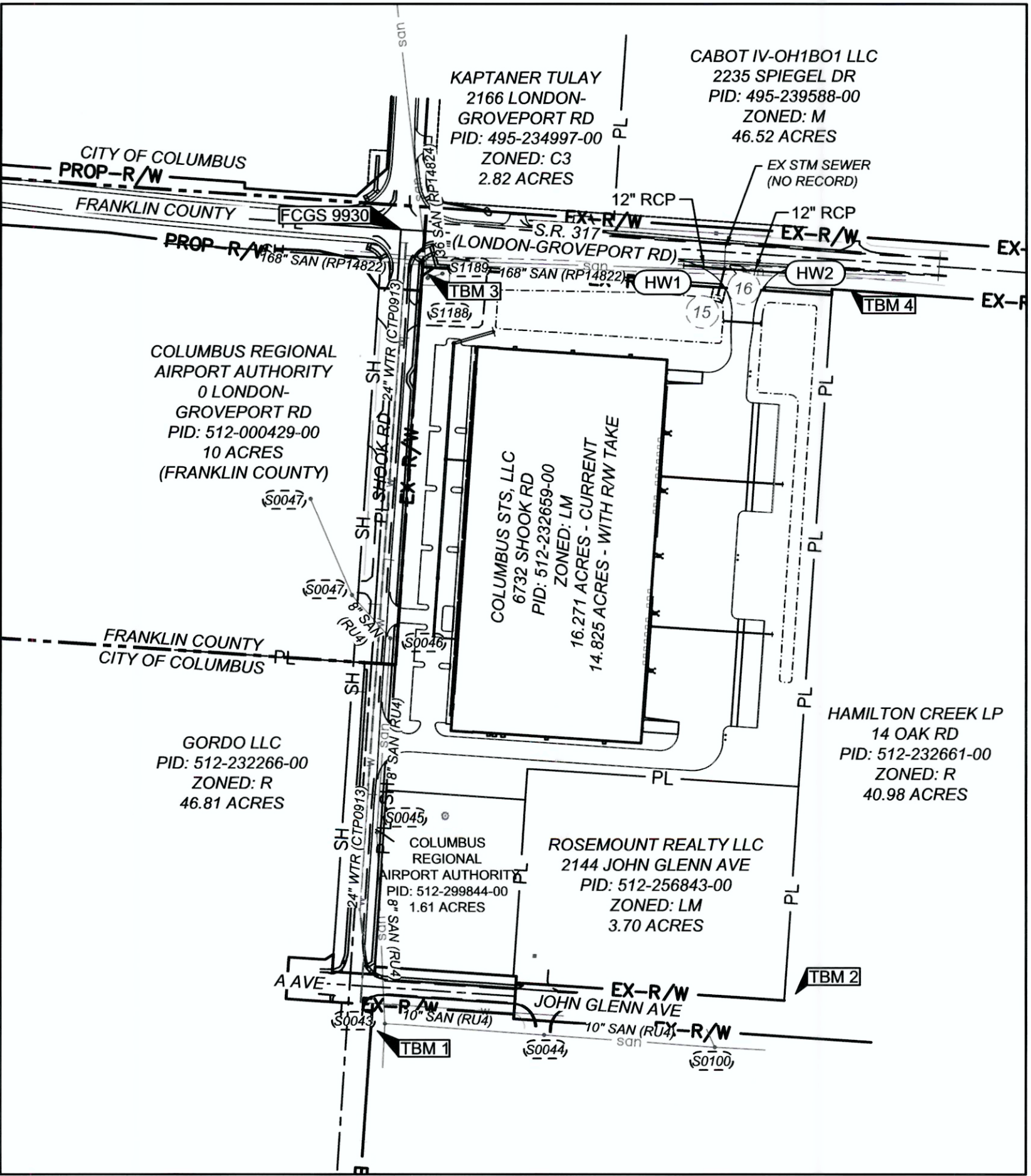
S.R. 317 (LONDON GROVEPORT ROAD) CENTERLINE STATIONING IS BASED ON THE FRANKLIN COUNTY SURVEY CONTROL MONUMENT SET AT THE INTERSECTION OF SHOOK ROAD AND S.R. 317 (LONDON-GROVEPORT RD). (STA. 163+33.66, ASCENDING EASTERLY)

EXISTING RIGHT-OF-WAY DESCRIPTION (SEE INSTR. NO. 202001170008633)

SHOOK ROAD
ROAD WIDTH IS BY OCCUPATION WITH WIDTH OF 40' EAST OF QUARTER SECTION LINE PER ROAD RECORD 17, PG 161 AND FRANKLIN COUNTY ENGINEER PLANS SHOOK ROAD SEC. "B" CIRCA 1942. NO KNOWN INSTRUMENT CONVEYING EASEMENT RIGHTS FROM UNITED STATES OF AMERICA TO FRANKLIN COUNTY.

S.R. 317 (LONDON-GROVEPORT RD)

WAR DEPARTMENT PERMIT FOR EXTENSION OF ROAD ACROSS MILITARY RESERVATION, DEED BOOK 1206, PAGE 650. EXISTING RIGHT-OF-WAY WOULD BE IN HIGHWAY EASEMENT BY OCCUPATION WITH WIDTH OF 50' SOUTH OF CENTERLINE PER (FRA-SH924-SEC F) PLANS CIRCA 1942.



INDEX MAP
1" = 200'

PRELIMINARY SITE COMPLIANCE PLAN 19601-00052
FINAL SITE COMPLIANCE PLAN 19345-00411
PRIVATE WATER SERVICE PLAN WSP-5716
CC STORM PLAN CC-18509
DIVISION OF WATER PLAN 19-147

SITE DATA TABLE	
DEVELOPMENT NAME	SHOOK RD INDUSTRIAL
ZONING CASE NUMBER	Z19-019
ZONING ADDRESS	6732 SHOOK RD
SITE AREA	14.83 AC
TAX PARCEL ID	512-232659-00
TOTAL DISTURBED AREA	13.58 AC
R/W DISTURBED AREA	0.64 AC ##
FEMA MAP PANEL & ZONE	39049C0429K, ZONE "X" (06/17/2008)

NOTE
ADDITIONAL STORMWATER PROTECTION NOTES AND MEASURES ARE PROVIDED ON CC-18509

- DISTURBANCE IN THE RIGHT-OF-WAY IS ACCOUNTED FOR AND ADDRESSED WITH DETENTION AND WATER QUALITY TREATMENT PROVIDED UNDER STORM CC-18509 PLANS

Ohio Utilities Protection Service
Call 811
before you dig

ODOT STANDARD CONSTRUCTION DRAWINGS	CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS	SUPPLEMENTAL SPECIFICATIONS
2130	04/30/2018 AA-S150	
2202	12/31/2018 AA-S151	
2300	04/30/2018 AA-S168	



AMERICAN
STRUCTUREPOINT
INC.

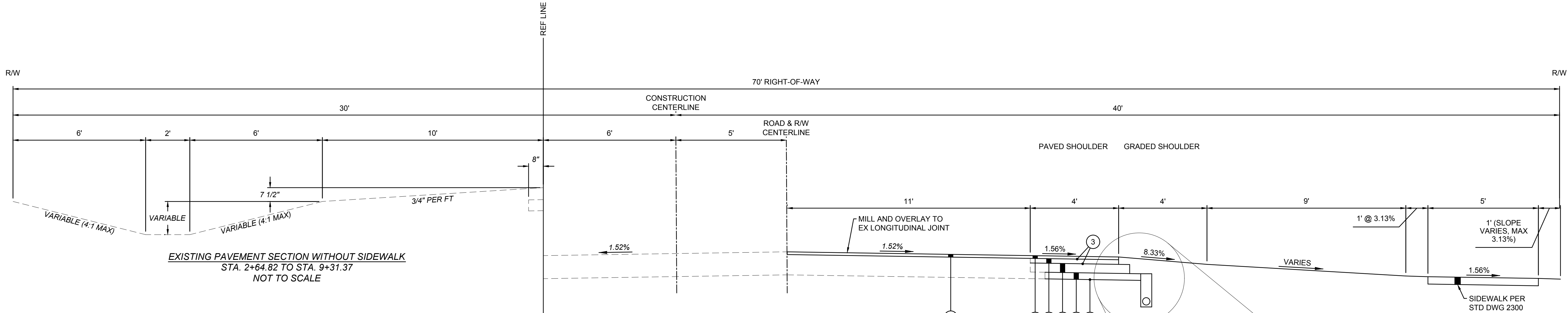
2550 CORPORATE EXCHANGE DRIVE, SUITE 300
COLUMBUS, OHIO 43231
CONTACT: BENJAMIN MILLER
PHONE: (614) 901-2235
EMAIL: BMILLER@STRUCTUREPOINT.COM



BENJAMIN J. MILLER, E-76866, P.E.

4-28-2020
DATE

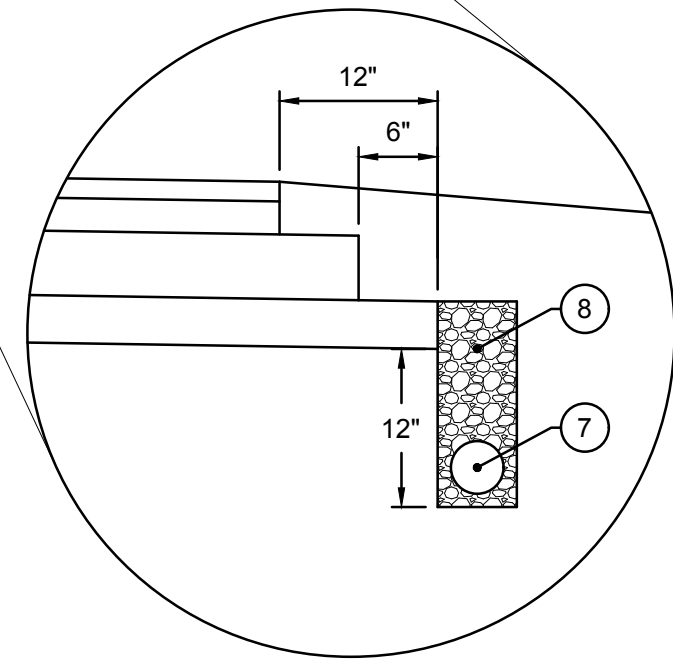
PLOT SCALE: 1:1069.3591 EDIT DATE: 4/24/20 - 8:51 AM EDITED BY: JRPERRY DRAWING FILE: O:\2019\000699D_DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\DRAWER E\2019.00069 E.TS.TYP SECT. & GND.DWG



SHOOK ROAD TYPICAL SECTION

STA. -1+92.05 TO STA. 0+00.00
STA. 0+00.00 TO STA. 9+31.37
NOT TO SCALE

LEGEND	
①	ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M
②	ITEM 441 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
③	ITEM 407 - TACK COAT
④	ITEM 301 - 6" ASPHALT CONCRETE BASE (MAXIMUM LIFT OF 6" AND MINIMUM LIFT OF 3")
⑤	ITEM 304 - 6" (MIN.) AGGREGATE BASE
⑥	ITEM 204 - SUBGRADE COMPACTION
⑦	ITEM 605 - 4" PIPE UNDERDRAIN
⑧	NO. 8 OR NO. 57 AGGREGATE

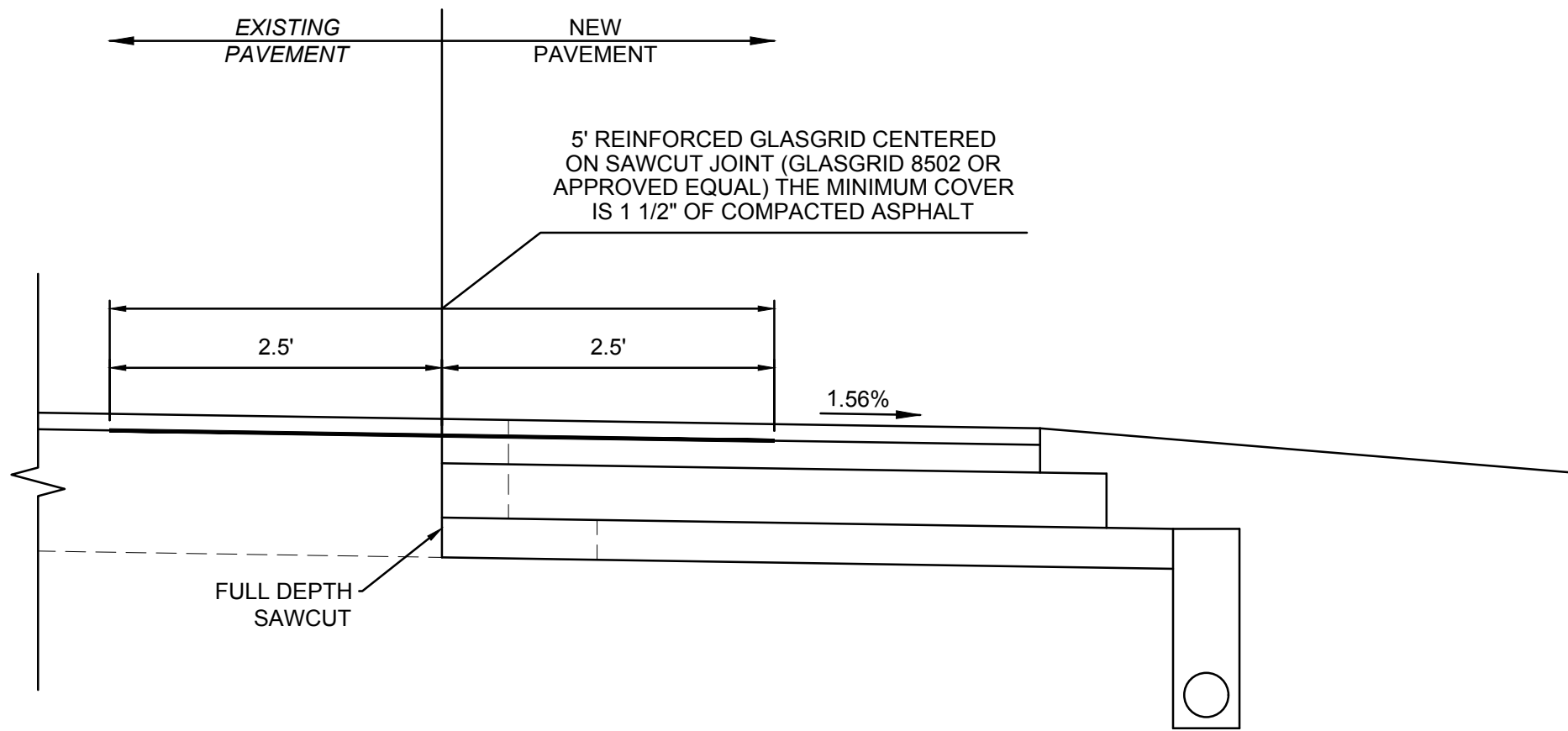


UNDERDRAIN DETAIL

NOT TO SCALE

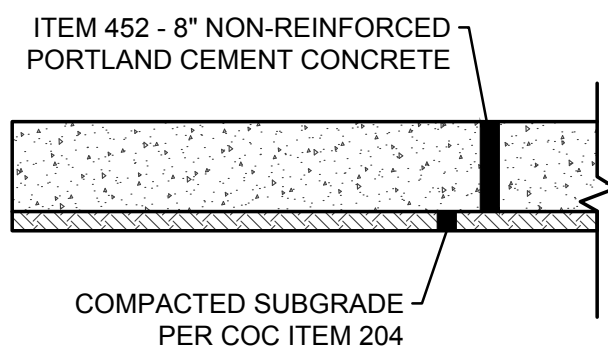
ITEM 304 - AGGREGATE BASE

THE CONTRACTOR IS TO ENSURE THAT THE SUBGRADE ELEVATION OF THE WIDENING IS AT OR BELOW THE ELEVATION OF THE EXISTING SUBGRADE. AS DIRECTED BY THE ENGINEER, ADDITIONAL ITEM 304 - AGGREGATE BASE SHALL BE PLACED BELOW THAT SHOWN ON THE TYPICAL SECTIONS. ADDITIONAL ITEM 203 - EXCAVATION AND ITEM 304 - AGGREGATE BASE REQUIRED TO MEET THIS CONDITION SHALL BE PAID AT THE CONTRACT BID PRICE.



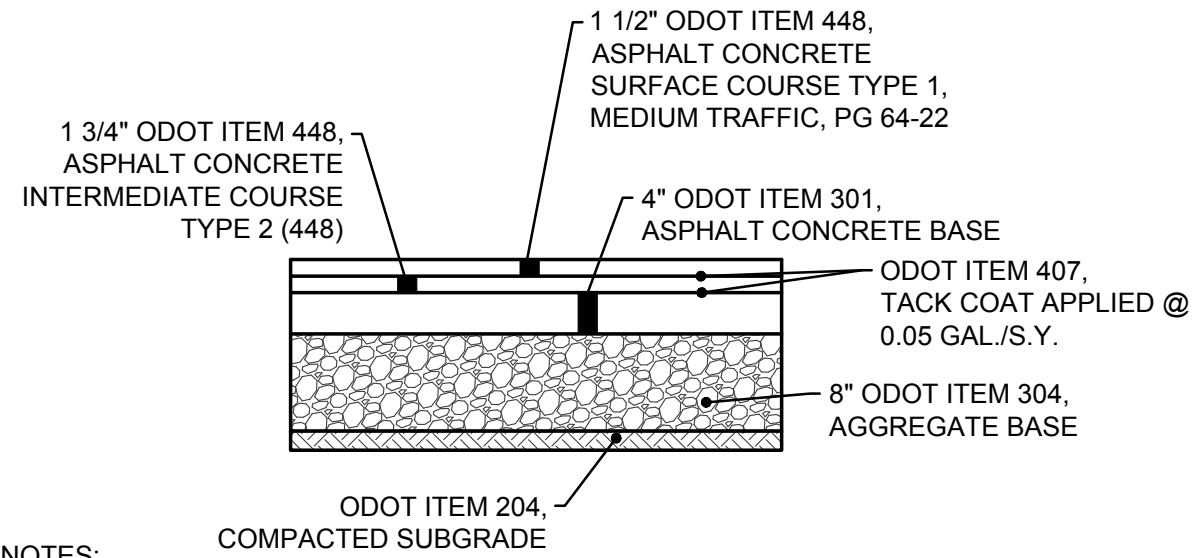
PAVEMENT REINFORCING GRID DETAIL

NOT TO SCALE



CONCRETE DRIVE APPROACH PER COC STD DWG 2202

STA. 1+47.50
NOT TO SCALE



ASPHALT PAVEMENT DRIVE ENTRANCE

STA. 3+58.61
NOT TO SCALE

- NOTES:
- COMPOSE HOT MIX ASPHALT MIXTURE WITH AGGREGATE AND ASPHALT BINDER MEETING ODOT 401 REQUIREMENTS.
 - SUBMIT AN APPROVED JOB MIX FORMULA INCLUDING MIX TYPE PROPOSED FOR USE, AGGREGATE SOURCE, TYPE, AND GRADATION, PERCENT OF ASPHALT BINDER, AND UNIT WEIGHT OF THE MIXTURE.
 - OBTAIN JOB MIX FORMULA APPROVAL BY PROVIDING A PREVIOUSLY ODOT APPROVED FORMULA OR CONTRACT AN INDEPENDENT TESTING AGENCY TO PROVIDE TESTING AND WRITTEN APPROVAL OF THE FORMULA. THE AGENCY PERFORMING THE TESTING MUST BE LEVEL III BITUMINOUS CONCRETE APPROVED BY ODOT.

GENERAL NOTES

THE CITY OF COLUMBUS CONSTRUCTION AND MATERIALS SPECIFICATIONS (CMSC), 2018 EDITION INCLUDING ALL REVISIONS AND SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THE PLANS UNLESS NOTED OTHERWISE.

THE CONTRACTOR SHALL NOTIFY THE FOLLOWING DIVISIONS AT LEAST 24-HOURS IN ADVANCE OF ANTICIPATED START OF CONSTRUCTION.

DIVISION OF SEWERAGE AND DRAINAGE (614) 645-7102

DIVISION OF DESIGN AND CONSTRUCTION (CONSTRUCTION SECTION) (614) 645-0433

THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 72 HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.

ANY MODIFICATION TO THE WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER/ADMINISTRATOR, DIVISION OF DESIGN AND CONSTRUCTION, CITY OF COLUMBUS.

APPROVAL OF THIS PLAN IS CONTINGENT UPON ALL EASEMENTS REQUIRED FOR CONSTRUCTION OF THE IMPROVEMENT WORK, BE SECURED BY THE OWNER.

IMMEDIATELY AFTER PLACEMENT OF ANY CONDUITS, THE CONTRACTOR SHALL CONSTRUCT THE END TREATMENTS REQUIRED BY THE PLANS AT BOTH THE OUTLET AND INLET ENDS. THIS SHALL INCLUDE HEADWALLS, CONCRETE, RIP RAP, ROCK CHANNEL PROTECTION, SODDING, POURING BOTTOMS, MUDDING LIFT HOLES, ETC.

INSPECTION-

THE DEVELOPER/OWNER SHALL, PRIOR TO ANY CONSTRUCTION OPERATION, DEPOSIT WITH THE CITY THE TOTAL ESTIMATED COSTS FOR INSPECTION AND WHERE REQUIRED A PAVING GUARANTEE.

INSPECTION ON THIS PROJECT SHALL BE PROVIDED BY REPRESENTATIVES OF THE CITY OF COLUMBUS.

PRIOR TO CONSTRUCTION, THE DEVELOPER SHALL ENTER INTO A CONSTRUCTION AGREEMENT, POST SURETY AND DEPOSIT INSPECTION FEES WITH THE CITY OF COLUMBUS PUBLIC SERVICE DEPARTMENT FOR THE TOTAL ESTIMATED COSTS OF CONSTRUCTION IN ACCORDANCE WITH COLUMBUS CITY CODE SECTION 901.01.

THE CONTRACTOR SHALL NOTIFY THE CITY OF COLUMBUS DIVISION OF DESIGN AND CONSTRUCTION (614) 645-0433 AND DIVISION OF SEWERS AND DRAINS (614) 645-7102 AT LEAST 24 HOURS PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL ENSURE THERE IS A SURVEYOR'S LEVEL AND ROD ON THE PROJECT FOR USE IN PERFORMING GRADE CHECKS WHENEVER SEWER LINE STRUCTURES OR PIPE ARE BEING INSTALLED. THE CONTRACTOR SHALL MAKE THIS EQUIPMENT AVAILABLE FOR USE AND ASSIST THE CITY INSPECTOR IN PERFORMING GRADE CHECKS WHEN REQUESTED BY THE INSPECTOR. THE INSPECTOR WILL MAKE ALL REASONABLE ATTEMPTS TO CONFINE REQUESTS FOR ASSISTANCE IN PERFORMING GRADE CHECKS TO TIME CONVENIENT TO THE CONTRACTOR.

THESE CHECKS WILL BE PERFORMED TO ENSURE THE FOLLOWING:

1. PROPER PLACEMENT OF EACH STRUCTURE.
2. PROPER INSTALLATION OF INITIAL RUNS OF PIPE FROM A STRUCTURE.
3. GRADE, AFTER AN OVERNIGHT OR LONGER SHUTDOWN.
4. GRADE, AT ANY OTHER TIME THE INSPECTOR HAS REASON TO QUESTION GRADE OF INSTALLATION.

GRADE CHECKS PERFORMED BY THE CITY INSPECTOR IN NO WAY RELIEVE THE CONTRACTOR OF THE ULTIMATE RESPONSIBILITY TO ENSURE CONSTRUCTION TO THE PLAN GRADE

THE PROPERTY OWNER SHALL MAINTAIN COPIES OF COMPLETE DATED AND SIGNED INSPECTION CHECKLISTS IN A MAINTENANCE INSPECTION LOG, ALONG WITH RECORDED DATES AND DESCRIPTIONS OF MAINTENANCE ACTIVITIES PERFORMED BY THE PROPERTY OWNER TO REMEDY THE DEFICIENCIES OBSERVED DURING PRIOR INSPECTIONS. THE MAINTENANCE INSPECTION LOG SHALL BE KEPT ON THE PROPERTY AND SHALL BE MADE AVAILABLE TO THE CITY UPON REQUEST. A COPY OF THE MAINTENANCE INSPECTION LOG SHALL BE SUBMITTED ANNUALLY BY DECEMBER 31ST OF EACH YEAR TO THE DIVISION OF SEWERAGE AND DRAINAGE. MAINTENANCE INSPECTION LOGS SHALL BE SUBMITTED TO:

CITY OF COLUMBUS
DIVISION OF SEWERAGE AND DRAINAGE
STORMWATER AND REGULATORY MANAGEMENT SECTION
1250 FAIRWOOD AVENUE
COLUMBUS, OHIO 4320

PERMITS-

THE CONTRACTOR IS TO OBTAIN ALL NECESSARY PERMITS, AN ORIGINAL PERMIT WITH RED SIGNATURES SHALL BE KEPT ONSITE AT ALL TIMES.

WHEN EXCAVATING WITHIN COLUMBUS PUBLIC RIGHT OF WAY LIMITS, THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM CITY OF COLUMBUS, DIVISION OF PLANNING AND OPERATIONS- PERMIT OFFICE, BETWEEN THE HOURS OF 7:30 AM AND 4:00 PM MONDAY THROUGH FRIDAY. PHONE: (614) 645-7497; FAX: (614) 645-1876
EMAIL: COLSPERMIT@COLUMBUS.GOV

UTILITIES-

THE IDENTITY AND LOCATION OF EXISTING UNDERGROUND UTILITIES LOCATED IN AND AROUND THE CONSTRUCTION AREA HAVE BEEN SHOWN AND LABELED ON THE PLANS BY USING INFORMATION PROVIDED BY THE RESPECTIVE UTILITY OWNERS. THE CITY OF COLUMBUS OR THE CONSULTING ENGINEER WILL NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF LOCATION OR DEPTH OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE PLAN.

SUPPORT AND PROTECTION OF ALL UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COSTS FOR THE REPAIR AND RESTORATION OF EXISTING UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CITY OF COLUMBUS UTILITIES WILL ONLY LOCATE AND MARK MAIN LINE FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL SERVICE LATERAL AND LINES. COSTS ASSOCIATED WITH THE ABOVE WORK AND RESPONSIBILITIES SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS.

ALL PLASTIC SEWER LINES SHALL BE DEFLECTION TESTED AFTER INSTALLATION IN CONFORMANCE WITH THE REQUIREMENTS OF ITEM 901 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT VERSION.

ALL CONCRETE PIPE, STORM AND SANITARY SEWER STRUCTURES WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT SAID PIPE, STORM AND SANITARY STRUCTURES HAVE BEEN INSPECTED BY THE CITY OF COLUMBUS AND MEETS THEIR SPECIFICATIONS. PIPE AND STRUCTURES WITHOUT PROPER IDENTIFICATION WILL NOT BE PERMITTED FOR INSTALLATION.

PRIOR TO EXCAVATION, THE CONTRACTOR SHALL GIVE A 48-HOUR NOTICE TO THE OHIO UTILITIES PROTECTION SERVICE (OUPS) BY CALLING (800) 362-2764. A 48-HOUR NOTICE SHALL BE GIVEN TO THE OWNERS OF UNDERGROUND UTILITIES SHOWN ON THE PLANS WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE.

LISTED BELOW ARE UTILITY COMPANIES THAT HAVE FACILITIES LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT AND SUBSCRIBE TO OUPS.

AEP (COLUMBUS REGION) 850 TECH CENTER DRIVE GAHANNA, OHIO 43230 TELEPHONE - (614) 893-6876	VERIZON 5000 BRITTON ROAD HILLIARD, OHIO 43026 TELEPHONE - (614) 219-2317	SPECTRUM 3760 INTERCHANGE DRIVE COLUMBUS, OHIO 43204 TELEPHONE - (614) 827-7920
COLUMBIA GAS OF OHIO 920 W. GOODALE BOULEVARD COLUMBUS, OHIO 43212 TELEPHONE - (614) 460-5400 X3028	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES 910 DUBLIN ROAD COLUMBUS, OH 43215 TELEPHONE - (614) 645-7788	SOUTH CENTRAL POWER COMPANY 2780 COMPAATH ROAD NE LANCASTER, OH 43130 TELEPHONE - (800) 282-5064
CITY OF COLUMBUS DEPARTMENT OF TECHNOLOGY SERVICES-COMMUNICATIONS BUILDING C 1355 MCKINLEY AVE. COLUMBUS, OH 43222 TELEPHONE - (614) 645-7756 FAX - (614) 645-6627	CITY OF COLUMBUS DEPARTMENT OF PUBLIC SERVICE TRAFFIC MANAGEMENT 1820 E. 17TH AVE. COLUMBUS, OH 43219 TELEPHONE - (614) 645-7393 FAX - (614) 645-5967	CITY OF COLUMBUS DIVISION OF SUPPORTS 4211 GROVES ROAD COLUMBUS, OH 43232-4104 TELEPHONE - (614) 724-7047 FAX - (614) 645-6588 RADIO ROOM: (614) 724-4006

EMERGENCY PROVISIONS-

THE CONTRACTOR SHALL PROVIDE TO THE CITY OF COLUMBUS PROJECT REPRESENTATIVE A LIST OF 24-HOUR EMERGENCY TELEPHONE NUMBERS (IN WRITING) PRIOR TO THE START OF CONSTRUCTION.

SECURING EXCAVATIONS & TRENCHES FOR NON-WORKING HOURS-

EXCAVATIONS AND TRENCHES OVER 24 INCHES DEEP SHALL BE SECURELY PLATED OR BACKFILLED DURING NON-WORKING HOURS.

CONSTRUCTION LIMITS-

THE CONSTRUCTION LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE OF THESE CONSTRUCTION LIMITS.

MISCELLANEOUS WORK ITEMS-

THE CONTRACTOR SHALL PERFORM ALL ITEMS OF WORK CALLED FOR ON THE PLANS, FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED. THE COST OF THESE ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT IMPROVEMENT.

BENCHMARKS AND SURVEY MONUMENTS-

DO NOT DISTURB ANY FRANKLIN COUNTY CERTIFIED BENCHMARKS (VERTICAL AND/OR HORIZONTAL) LOCATED WITHIN THE WORKING LIMITS OF THE PROJECT. CONTRACTOR SHALL CONTACT THE FRANKLIN COUNTY SURVEY DEPARTMENT (614) 525-2489, PRIOR TO CONSTRUCTION, TO COORDINATE THE PROPER PROCEDURES FOR THE RESETTING, RELOCATION, OR REPLACEMENT OF ANY FRANKLIN COUNTY CERTIFIED BENCHMARK OR SURVEY MONUMENT.

COMPACTION TESTING AT UTILITY CROSSINGS-

PRIOR TO CONSTRUCTION OF THE PUBLIC ROADWAY, SOIL TESTS SHALL BE MADE ON ALL OPEN CUT UTILITY TRENCHES WHICH CROSS THE PROPOSED PAVEMENTS OR WHICH LIE SUCH THAT THE PROPOSED PAVEMENTS ARE LOCATED WITHIN ANY PART OF THE INFLUENCE LINE OF SAID TRENCH. WHERE SAID RESULTS INDICATE THAT THE TRENCH BACKFILL DOES NOT MEET THE COMPACTION REQUIREMENTS OF CMSC 912, ALL BACKFILL MATERIAL SHALL BE REMOVED, REPLACED, AND RE-TESTED UNTIL COMPLIANCE IS ACHIEVED.

SAW CUTTING IS INCLUDED-

THE COST OF SAW CUTTING FOR THE REMOVAL OF PAVEMENT, CURB, WALKS, ETC. SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 202 WORK ITEMS. SAW CUTTING IS REQUIRED TO PROVIDE SMOOTH STRAIGHT EDGES FOR REMOVAL PURPOSES.

NEW CURB RADIUS-

INTERSECTION CORNERS OR HORIZONTAL CURVES SHALL MATCH THE EXISTING RADIUS UNLESS NOTED OTHERWISE.

GAS SERVICE VALVES ADJUSTED TO GRADE-

THE CONTRACTOR SHALL CONTACT COLUMBIA GAS (614) 460-2244 TO COORDINATE THE ADJUSTMENT OF GAS SERVICE VALVES.

COLUMBIA GAS DAMAGE PREVENTION CENTER-

FOR INFORMATION CONCERNING COLUMBIA GAS LINES OR EQUIPMENT, OR IF DAMAGE OCCURS TO GAS LINES OR EQUIPMENT, THE CONTRACTOR CAN CALL THE COLUMBIA GAS DAMAGE PREVENTION CENTER @ (614) 280-7372 OR TOLL FREE @ (866) 832-6243.

CONCRETE WALKS-

ALL EXISTING CONCRETE SIDEWALKS BEING REPLACED WITH NEW CONCRETE SIDEWALKS SHALL BE REMOVED AT AN EXISTING JOINT AND REPLACED PER STANDARD DRAWING 2300. INSTALL EXPANSION JOINT WHERE NEW CONCRETE ADJOINS EXISTING SIDEWALK.

ALL EXISTING CONCRETE SIDEWALKS NOT SCHEDULED FOR REPLACEMENT BUT BEING CROSSED BY THE INSTALLATION OF TRAFFIC ITEMS, ELECTRICAL CONDUIT, PIPING, ETC. SHALL BE FULLY REMOVED AT AN EXISTING JOINT AND REPLACED PER STANDARD DRAWING 2300 UNLESS NOTED OTHERWISE.

PAYMENT SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 608 - CONCRETE WALK.

BRICKS REMOVED, SALVAGED AND DELIVERED (S.Y.)-

REMOVAL: CAREFULLY REMOVE ALL BRICKS, AS INDICATED FOR REMOVAL, WITHOUT UNNECESSARY DAMAGE, AND CLEANED FOR RE-USE. INCLUDE THE REMOVAL AND DISPOSAL OF THE SAND SETTLING BED.

SALVAGE: STACK ALL UNDAMAGED AND CLEANED BRICKS IN PALLETS AND SECURELY WRAP, FASTEN OR BOX IN PALLETS. STACK BRICKS NO MORE THAN EIGHT (8) LAYERS HIGH.
DELIVERY: TRANSPORT ALL SALVAGED BRICKS TO THE CITY OF COLUMBUS, DEPARTMENT OF PUBLIC SERVICE 25TH AVE. MAINTENANCE YARD. CONTRACTOR SHALL CALL THE MAINTENANCE YARD MANAGER AT (614) 645-8120 AT LEAST TWO WEEKS IN ADVANCE TO MAKE ARRANGEMENTS FOR DELIVERY. PAVEMENT FOR THE WORK SHALL BE MADE AFTER THE UNDAMAGED BRICK HAS BEEN DELIVERED. INCLUDE IN THE COST ALL WORK REQUIRED TO REMOVE, CLEAN, SALVAGE AND DELIVER BRICK AS BID PRICE FOR ITEM 202 - BRICK REMOVED FOR STORAGE, AS PER PLAN - S.Y.

FOR THE DIVISION OF POWER-

THE DIVISION OF POWER MAY HAVE OVERHEAD PRIMARY, SECONDARY, AND STREET LIGHTING AT THIS WORK LOCATION. THE CONTRACTOR IS HEREBY REQUIRED TO CONTACT "OUPS" AT 811 OR 1-800-362-2764 FORTY- EIGHT HOURS PRIOR TO CONDUCTING ANY ACTIVITY WITHIN THE CONSTRUCTION AREA.

ANY REQUIRED RELOCATION, SUPPORT, PROTECTION, OR ANY OTHER ACTIVITY CONCERNED WITH THE CITY'S ELECTRICAL FACILITIES IN THE CONSTRUCTION AREA IS TO BE PERFORMED BY THE CONTRACTOR UNDER DIRECTION OF DOP PERSONNEL AND AT THE EXPENSE OF THE PROJECT. DOP SHALL MAKE ALL FINAL CONNECTIONS TO DOP'S EXISTING ELECTRICAL SYSTEM AT THE EXPENSE OF THE PROJECT. THE CONTRACTOR SHALL USE MATERIAL AND MAKE REPAIRS TO A CITY OF COLUMBUS STREET LIGHTING SYSTEM BY FOLLOWING DOP'S "MATERIAL AND INSTALLATION SPECIFICATIONS" (MIS) AND THE CITY OF COLUMBUS "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMSC). ANY NEW OR RE-INSTALLED UNDERGROUND STREET LIGHT SYSTEM SHALL REQUIRE TESTING AS REFERRED TO IN SECTION 1000.18 OF THE CMSC MANUAL. THE CONTRACTOR SHALL CONFORM TO DOP'S EXISTING STREET LIGHT LOCKOUT/TAGOUT (LOTO) PROCEDURE, MIS-1, COPIES OF WHICH ARE AVAILABLE FROM DOP.

IF ANY ELECTRIC FACILITY BELONGING TO THE DOP IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, ITS AGENTS, SERVANTS, OR EMPLOYEES, AND REQUIRES EMERGENCY REPAIRS, THE DOP DISPATCH OFFICE SHOULD BE CONTACTED IMMEDIATELY AT (614) 645-7627. DOP SHALL MAKE ALL NECESSARY REPAIRS, AND THE EXPENSE OF SUCH REPAIRS AND OTHER RELATED COSTS SHALL BE PAID BY THE CONTRACTOR TO THE DIVISION OF POWER, CITY OF COLUMBUS, OHIO.

SHEETING & BRACING-

ANY SHEETING AND BRACING NECESSARY TO INSTALL THE PROPOSED PROJECT IMPROVEMENTS SHALL BE FURNISHED, INSTALLED, AND MAINTAINED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. NO SEPARATE PAYMENT SHALL BE MADE FOR SHEETING AND BRACING. AT ALL TIMES THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATION IN A MANNER THAT IS SAFE TO ALL WORKERS AND THE GENERAL TRAVELING PUBLIC. ALL OSHA REQUIREMENTS SHALL BE UPHOLD AND SOUND SAFETY PRACTICES SHALL BE EXERCISED AT ALL TIMES. REMOVAL OF SHEETING AND BRACING ITEMS UPON COMPLETION OF WORK WILL BE REQUIRED AS DIRECTED BY THE CITY OF COLUMBUS REPRESENTATIVES.

TREE PROTECTION DURING CONSTRUCTION-

PUBLIC TREES WILL BE PROTECTED AGAINST INJURY OR DAMAGE TO BRANCHES, TRUNKS, OR ROOTS FROM EXCAVATIONS AND CONSTRUCTION. CITY OF COLUMBUS FORESTRY SECTION CAN BE CONTACTED AT 614-645-6640. THIS SHALL BE DONE IN ACCORDANCE WITH THE CITY OF COLUMBUS, FORESTRY SECTION AND BY THE FOLLOWING REQUIREMENTS.

ALL TREE PRUNING AND REMOVAL MUST BE DONE IN ACCORDANCE TO ANSI A300 AND ANSI Z133.1 STANDARDS. THE CONTRACTOR PERFORMING THE WORK MUST BE A PROFESSIONAL TREE CARE COMPANY WITH A CERTIFIED ARBORIST ON STAFF AND AVAILABLE TO DIRECT THE ONSITE CREW.

HEAVY EQUIPMENT WILL NOT BE ALLOWED TO COMPACT THE SOIL OVER THE CRITICAL ROOT ZONE OF EXISTING TREES. RESTRICTED EQUIPMENT ACCESS ROUTES WILL BE ESTABLISHED BEFORE WORK IS BEGUN. TEMPORARY PAVING MATERIALS SUCH AS PLYWOOD, LUMBER, OR RUBBER MATTING SPREAD OVER THE ROOT ZONE MAY BE REQUIRED TO PREVENT COMPACTION.

INSTALLATION OF UTILITIES UNDER THE DRIP LINE OF EXISTING TREES MUST BE DIRECTIONALLY BORED OR DRILLED BELOW THE ROOT ZONE. TOP OF THE BORE OR TUNNEL SHOULD BE NO HIGHER THAN 3 FEET DEEP. OPEN TRENCHES WITHIN THE ROOT ZONE MUST BE AVOIDED.

WHERE GRADE CHANGE IS REQUIRED WITHIN THE ROOT ZONE OF PUBLIC TREES, A SUFFICIENT RESIDUAL ROOT ZONE TO PROVIDE FOR THE GOOD HEALTH OF THE TREES SHALL BE MAINTAINED UNDISTURBED AND PROTECTED BY EITHER A DRY WELL OR RETAINING WALL IF THE GRADE IS TO BE RAISED OR LOWERED.

CONSTRUCTION MATERIALS, EXCAVATION DEBRIS, CHEMICALS, FUEL, EQUIPMENT OR VEHICLES ARE NOT TO BE STOCKPILED, STORED, DUMPED OR PARKED WITHIN THE DRIP LINE OF PUBLIC TREES.

FIRES ARE NOT PERMITTED WITHIN THE DRIP LINE OF ANY TREES.

ALL EXISTING TREES DESIGNATED FOR PRESERVATION WILL BE PROTECTED WITH A GOOD, SUBSTANTIAL FENCE, FRAME OF BOX NOT LESS THAN FOUR FEET HIGH AND AS FAR FROM THE TREE AS POSSIBLE. DRIPLINE IS PREFERABLE, HOWEVER, ACTUAL LOCATION WILL BE DETERMINED BY THE SITE LIMITATIONS.

FENCING WILL BE INSTALLED BEFORE THE COMMENCING SITE PREPARATION WORK. FENCE MUST BE MAINTAINED DURING THE FULL CONSTRUCTION PERIOD.

INTERFERING BRANCHES OF TREES MAY BE REMOVED WHEN ACCEPTABLE TO THE CITY FORESTER AND SHALL BE PRUNED IN ACCORDANCE WITH THESE STANDARDS.

ANY TREE DAMAGED OR DESTROYED DUE TO CONTRACTOR NEGLIGENCE WILL BE TREATED OR REMOVED AT THE CONTRACTOR'S EXPENSE. IF DAMAGED BEFORE REPAIR, THE CITY WILL REQUIRE REIMBURSEMENT FOR THE VALUE OF THE TREE AS DETERMINED BE THE CURRENT EDITION OF THE 'GUIDE FOR PLANT APPRAISAL' PUBLISHED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE.

TREES TO BE PRESERVED WITHIN THE WORK LIMITS SHALL BE PROTECTED WITH HIGH VISIBILITY TREE PROTECTION FENCING PLACED AROUND THE TREE AREA. WHERE IT DOES NOT INTERUDE ON THE CONSTRUCTION ACTIVITIES SPECIFIED ON THESE DRAWINGS, THE TREE PROTECTION FENCING SHOULD BE PLACED AROUND THE TREE AT THE DRIP EDGE TO THE ROOT SYSTEM.

THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL TREES. IF TREE TRIMMING IS REQUIRED, A PERMIT MUST BE ACQUIRED FROM THE CITY FORESTER AT THE DEPARTMENT OF RECREATION AND PARKS. NO CONSTRUCTION SHALL TAKE PLACE WITHIN TEN (10) FEET OF ANY TREE WITHOUT PRIOR APPROVAL OF THE CITY FORESTER AT (614) 645-6640.

NO TREES UNSPECIFIED FOR REMOVAL SHALL BE REMOVED WITHOUT APPROVAL FROM THE CITY OF COLUMBUS. ALL BRANCHES OR GROWTH FROM TREES THAT ARE TO BE SAVED AND WHICH ARE INTERFERING WITH THE FREE CONSTRUCTION OF THE IMPROVEMENTS MAY BE REMOVED BY THE USE OF PRUNING TOOLS USED AND METHODS EMPLOYED SHALL MEET WITH THE APPROVAL OF THE CITY OF COLUMBUS. THE BRANCHES SHALL BE REMOVED WITH A GOOD CLEAN CUT MADE FLUSH WITH THE PARENT TRUNK OR IF HAVING A GOOD HEALTHY LATERAL BRANCH, THE CUT SHALL BE A GOOD CLEAN SLANTING CUT CLOSE TO AND BEYOND THE HEALTHY BRANCH. ALL PRUNING CUTS SHALL BE PAINTED WITH AN ACCEPTED PRUNING PRESERVATION. THE COST OF ALL WORK AND EXPENSES CONNECTED WITH THE REMOVAL OF TREES AND/OR BRANCHES SHALL BE INCLUDED IN THE PRICE BID FOR CLEANING AND GRUBBING. ROOT CUTTING WILL BE NECESSARY FOR THE INSTALLATION OF PROPOSED UTILITIES AND IMPROVEMENTS. ALL CUTS SHALL BE INCLUDED WITHIN THE COST OF ITEM 624 - MOBILIZATION, AS PER PLAN. NO EXTRA PAYMENT SHALL BE MADE.

ITEM 204-SUBGRADE COMPACTION-

ALL EARTH IN CONCRETE SIDEWALK AND CURB AREAS SHALL BE COMPACTED IN ACCORDANCE WITH CM5 204. PAYMENT FOR SUBGRADE COMPACTION SHALL BE INCLUDED WITHIN THE COST OF SIDEWALK IN WALK AREAS AND/OR THE COST OF CURB IN CURBED AREAS.

ITEM 624-MOBILIZATION, AS PER PLAN-

ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO COMPLETE ALL PREPARATORY WORK SHALL BE INCLUDED WITHIN THE BID COSTS FOR MOBILIZATION. THE CONTRACTOR SHALL INCLUDE IN HIS BID PRICE FOR MOBILIZATION THE COMPLETE COORDINATION WITH ALL UTILITY COMPANIES BY THIS PROJECT. ALL COORDINATION AND MOBILIZATION EFFORTS FOR THIS PROJECT SHALL BE INCLUDED WITHIN ITEM 624-MOBILIZATION, AS PER PLAN.

STREET LIGHTING-

THE STREET LIGHTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DIVISION OF POWER'S "MATERIAL AND INSTALLATION SPECIFICATIONS" (MIS) AND CURRENT CITY OF COLUMBUS, OHIO "CONSTRUCTION AND MATERIAL SPECIFICATIONS" - CITY OF COLUMBUS (CMSC), INCLUDING ALL SUPPLEMENTS THERETO, IN FORCE ON THE DATE OF THE CONTRACT. CMSC SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE PLANS, EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING OR BY THE SPECIFICATIONS DETAILS SET FORTH HEREIN.

THE PLAN DETAILS SHALL BE CONSIDERED SUPPLEMENTAL TO MIS SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL LOCAL CODES AND ORDINANCES PERTINENT TO THE PROGRESSION ON THE WORK DESCRIBED WITHIN THE PROJECT PLANS. ANY REQUIRED PERMITS SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR AND SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.

AS-BUILT RECORD-

THE CONTRACTOR SHALL MAINTAIN A SET OF PROJECT RECORD DOCUMENTS. THESE DOCUMENTS SHALL INCLUDE REVIEWED SHOP DRAWINGS, CHANGE ORDERS, EQUIPMENT OPERATING INSTRUCTIONS, FIELD TEST RECORDS, AND AS-BUILT DRAWINGS. THE AS-BUILT DRAWINGS SHALL BE MARKED LEGIBLY IN RED WITH THE ACTUAL LOCATION OF EQUIPMENT AS CONSTRUCTED.

ALL EQUIPMENT INSTALLED SHALL HAVE LOCATIONS MARKED IN DISTANCES OFF A LANDMARK AT LEAST EVERY 25 FEET OR LOCATION AT A LATER DATE. FINAL DOCUMENTS AND PLANS SHALL BE HANDED OVER TO THE CITY OF COLUMBUS DIVISION OF POWER AND WATER. THE DIVISION OF POWER AND WATER (POWER) HAS OVERHEAD PRIMARY, SECONDARY, AND OVERHEAD STREET LIGHTING THROUGHOUT THE PROJECT AREA. THE CONTRACTOR IS HEREBY REQUIRED TO CONTACT OUPS 1-800-362-2764 FORTY-EIGHT HOURS PRIOR TO CONDUCTING ANY ACTIVITY WITHIN THE CONSTRUCTION AREA. THE DOPW (POWER) DISPATCH OFFICE NUMBER IS: (614) 645-7627 (VOICE).

ALL ITEMS OF WORK CALLED FOR ON THE PLANS, FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED, SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF THESE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS RELATED ITEMS. THIS INCLUDES, BUT IS NOT LIMITED TO, SUCH INCIDENTAL ITEMS AS RELOCATION OF MAIL BOXES, SAW CUTTING, AND REMOVAL AND/OR RELOCATION OF SIGNS, RAILROAD TIES, SPRINKLERS, RELOCATING ROOF OR SURF DRAINS AROUND LIGHT POLE FOUNDATIONS, HAND DIGGING AROUND UNDERGROUND UTILITIES OR OTHER MISCELLANEOUS ITEMS.

EROSION AND SEDIMENT CONTROL-

EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AS PART OF THIS PROJECT. EROSION AND SEDIMENT CONTROL MEASURES SPECIFIC TO THIS SITE MAY BE FOUND ON SHEET 6 OF THIS PLAN. LAND-DISTURBING ACTIVITIES MUST COMPLY WITH ALL PROVISIONS OF THE DIVISION OF SEWERAGE AND DRAINAGE EROSION AND SEDIMENT CONTROL REGULATION. ALL LAND-DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE CITY OF COLUMBUS AND/OR THE OHIO EPA. ADDITIONAL SWPPP INFORMATION MAY BE DETAILED ON CCR-18509.

ALL EROSION SEDIMENTATION CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATIONS AT THE DISCRETION OF THE CITY OF COLUMBUS, PROJECT ENGINEER AND/OR THE OHIO EPA.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE CITY OF COLUMBUS TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF INITIAL SITE LAND DISTURBANCE ON ANY SITE OF ONE (1) OR MORE ACRES. THIS INCLUDES SITE CLEARING, GRUBBING, AND ANY EARTH MOVING. PRIMARY EROSION AND SEDIMENT CONTROL PRACTICES ARE MANDATED BY REGULATIONS TO BE IN PLACE FROM THE BEGINNING OF THE CONSTRUCTION ACTIVITY. PLEASE CONTACT THE STORMWATER MANAGEMENT OFFICE AT 614-645-6700 OR BY FAX AT 614-645-1506. DETAILS OF THIS REQUIREMENT MAY BE FOUND IN THE EROSION AND SEDIMENT POLLUTION CONTROL REGULATION (ADOPTED JUNE 1, 1994). FAILURE TO COMPLY MAY RESULT IN ENFORCEMENT ACTION AS DETAILED IN THE COLUMBUS CITY CODES SECTION 1145.80.

THE NPDES PERMIT HOLDER SHALL PROVIDE QUALIFIED PERSONNEL TO CONDUCT SITE INSPECTIONS ENSURING PROPER FUNCTIONALITY OF THE EROSION AND SEDIMENTATION CONTROLS. ALL EROSION AND SEDIMENTATION CONTROLS ARE TO BE INSPECTED ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF A 1/2" STORM EVENT OR GREATER THAT OCCURS OVER A 24 HOUR PERIOD. RECORDS OF THE SITE INSPECTIONS SHALL BE KEPT BY THE CONTRACTOR AND MADE AVAILABLE TO JURISDICTIONAL AGENCIES IF REQUIRED.

THIS PLAN MUST BE POSTED ON SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON SITE AT ALL TIMES.

PAVEMENT CUTTING, SAWING AND EXCAVATION OPERATIONS NOTE-

ALL PUBLIC AGENCIES AND PRIVATE CONTRACTORS PERFORMING PAVEMENT-CUTTING OPERATIONS ON CITY OF COLUMBUS STREETS AND ROADWAYS SHALL NOTIFY THE ENVIRONMENT FROM DISCHARGES CREATED BY THEIR PAVEMENT CUTTING OPERATIONS. NOTE THAT COLUMBUS CITY CODE 1145 PROHIBITS NON-STORMWATER DISCHARGE INTO THE CITY OF COLUMBUS SEWER SYSTEM, CURB INLETS AND ANY PART OF ITS M4 (MUNICIPAL SEPARATE STORM SEWER SYSTEM).

THE REQUIREMENT INCLUDES BUT IS NOT LIMITED TO WET OR DRY SAW-CUTTING, JACK-HAMMERING, EXCAVATION EQUIPMENT USE, ETC. THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR SHALL RECOVER AND DISPOSE OF ALL DEBRIS, INCLUDING PETROL, POLLUTED WATERS, OR OTHER SUCH DISCHARGES RESULTING FROM THEIR PAVEMENT CUTTING OPERATIONS AND PROTECT ALL STORM SEWER INLETS FROM RECEIVING ANY DISCHARGES FROM THE CONSTRUCTION OPERATIONS. THE AGENCY OR CONTRACTOR RESPONSIBLE FOR EACH PAVEMENT CUTTING ACTIVITY SHALL BE SOLELY LIABLE FOR NOTICE OF VIOLATIONS (NOVS) AND FINES ISSUED BY CITY OF COLUMBUS AND/OR STATE OF OHIO AUTHORITIES.

EQUIPMENT, MATERIALS AND METHODS SHALL BE PROVIDED BY THE RESPONSIBLE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR TO WORK CREWS PERFORMING THE PAVEMENT CUTTING ACTIVITY AND MADE AVAILABLE TO WORK CREWS FOR USE IN CLEANING UP DISCHARGES RESULTING FROM SUCH CUTTING ACTIVITIES AND PREVENTING RUNOFF. ALL WORK CREWS SHALL BE TRAINED TO EXERCISE AND EMPLOY EQUIPMENT, MATERIALS, AND ENVIRONMENTAL PROTECTIVE MEASURES TO PREVENT POLLUTED DISCHARGES FROM ENTERING THE CITY OF COLUMBUS STORM SEWER SYSTEM AND WATERS OF THE STATE OF OHIO.

THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THAT THE INLET PROTECTION IS ADEQUATE. THE MOST STRINGENT PROJECT PLANS, NOTES AND/OR DRAWINGS INCLUDING STORMWATER POLLUTION PREVENTION PLAN (SWP3) OR SPILL PREVENTION/REMEDIATION PLAN SHALL APPLY TO ALL PAVEMENT CUTTING, SAWING OR EXCAVATION OPERATIONS.

DIVISION OF WATER NOTES-

THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS, 2018 EDITION AND ALL REVISIONS, INCLUDING ALL SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THIS PLAN, UNLESS OTHERWISE NOTED.

ALL WATER MAIN MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS OF THE CITY OF COLUMBUS, DIVISION OF WATER. ALL CITY OF COLUMBUS, DIVISION OF WATER STANDARD DRAWINGS SHALL APPLY TO THE PROJECT, UNLESS OTHERWISE NOTED.

FOR ANY EMERGENCIES INVOLVING THE WATER DISTRIBUTION SYSTEM, PLEASE CONTACT THE DIVISION OF WATER DISTRIBUTION MAINTENANCE OFFICE AT 614-645-7788.

IT SHALL BE UNLAWFUL FOR ANY PERSON TO PERFORM ANY WORK ON CITY OF COLUMBUS WATER MAIN SYSTEMS WITHOUT FIRST SECURING LICENSE TO ENGAGE IN SUCH WORK, AS INDICATED IN COLUMBUS CITY CODE SECTION 1103.02 AND 1103.06. THIS WORK INCLUDES ANY ATTACHMENTS, ADDITIONS TO OR ALTERATIONS IN ANY CITY SERVICE PIPE OR APPURTENANCES (INCLUDING WATER SERVICE LINES AND TAPS). THIS REQUIREMENT MAY BE MET BY UTILIZATION OF A SUBCONTRACTOR WHO HOLDS A CITY OF COLUMBUS WATER CONTRACT OR LICENSE OR A CORNER CONTRACTOR WHO CONTRACTS TO PERFORM THIS WORK. UTILIZATION OF A SUBCONTRACTOR MUST MEET THE LICENSING REQUIREMENTS OF CITY OF COLUMBUS BUILDING CODE, IN PARTICULAR SECTION 4114.119 AND 4114.529.

THE CONTRACTOR SHALL OBTAIN THE PROPER HYDRANT PERMIT(S), AND PAY ANY APPLICABLE FEES, FOR ANY APPROVED HYDRANT USAGE DESCRIBED HEREIN. THE CONTRACTOR SHALL OBTAIN THE PROPER PERMITS FROM THE DIVISION OF WATER PERMIT OFFICE (645-7330). THE CONTRACTOR SHALL ADHERE TO ALL RULES & REGULATIONS GOVERNING SAID PERMIT AND MUST HAVE THE ORIGINAL PERMIT ON SITE ANYTIME IN WHICH THE HYDRANT IS IN USE. COST TO BE INCLUDED IN THE VARIOUS BID ITEMS.

ALL FIRE HYDRANTS TO BE INSTALLED IN THE CITY OF COLUMBUS SHALL BE PAINTED WITH THE COLOR "SAFETY ORANGE". THE FIRE HYDRANTS SHALL BE PROVIDED WITH TWO COATS IN A GLOSS ENAMEL OF THE "SAFETY ORANGE" COLOR FOR THE ENTIRE HYDRANT. THE TOPS OF THE FIRE HYDRANTS ARE NO LONGER REQUIRED TO BE PAINTED BLACK. AFTER INSTALLATION OF FIRE HYDRANTS, THE CONTRACTOR IS RESPONSIBLE TO APPLY TOUCH UP PAINT TO ANY DAMAGE TO THE FACTORY APPLIED HYDRANT PAINT. HYDRANTS WILL NOT BE ACCEPTED UNTIL ANY PAINT DAMAGE FROM SHIPPING OR INSTALLATION HAS BEEN REPAIRED. USE HYDRANT TOUCH UP PAINT IN ACCORDANCE WITH THE APPROVED MATERIALS LIST.

IF DURING EXCAVATION, THE POLYETHYLENE ENCASEMENT ON THE EXISTING WATER MAIN BECOMES DAMAGED, THE CONTRACTOR SHALL REPAIR THE POLYETHYLENE ENCASEMENT PER MANUFACTURER'S SPECIFICATIONS AND DOW STANDARD DRAWINGS L-1003 AND L-1004, AT THEIR OWN EXPENSE. ENSURE THAT THE ENTIRE EXPOSED AREA IS COVERED WITH NEW POLYETHYLENE ENCASEMENT AND SECURELY TAPED, PRIOR TO BACKFILLING.

CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS OF THE OHIO ADMINISTRATIVE CODE CHAPTER 3745-83-02 WATER DISRUPTION OF SERVICE RULE. EXCAVATE PITS SUFFICIENTLY BELOW THE AREA TO BE CONNECTED TO IN ORDER TO MAINTAIN WATER LEVELS BELOW THE WATER MAIN. IF WATER FROM THE PIT ENTERS THE EXISTING MAIN, CONTACT DIVISION OF WATER IMMEDIATELY. ENSURE THAT SUFFICIENTLY SIZED PUMPS ARE UTILIZED TO REMOVE WATER FROM THE TRENCH AND BACKUP PUMPS ARE KEPT ON SITE FOR REDUNDANCY.

"SURVEY COORDINATES" SHALL INCLUDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO OBTAIN HORIZONTAL AND VERTICAL (NORTHING, EASTING, AND CENTERLINE ELEVATION) SURVEY COORDINATES FOR THE WATER MAIN IMPROVEMENTS. THE SURVEY COORDINATES SHALL BE OBTAINED FOR THE COMPLETED WATER MAIN CONSTRUCTION AND SHALL INCLUDE ALL VALVES, TEES, CROSSES, BENDS, HORIZONTAL DEFLECTIONS, PLUGS, REDUCERS, TAPPING SLEEVES, FIRE HYDRANTS, AIR RELEASES, CURB STOPS, AND CASING PIPE TERMINI. ADDITIONAL SURVEY COORDINATES ARE REQUIRED ON THE WATER MAIN **EVERY 200 FEET** WHERE NO FITTING OR OTHER WATER MAIN STRUCTURE IS BEING INSTALLED WITHIN THAT LENGTH OF THE IMPROVEMENT.

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 (NSR2007) ADJUSTMENT, WITH FURTHER REFERENCE MADE TO THE OHIO STATE PLANE SOUTH COORDINATE SYSTEM, SOUTH ZONE, WITH ELEVATIONS BASED ON NAVD 88 DATUM. ALL COORDINATES (NORTHING, EASTING, CENTERLINE ELEVATION) SHALL BE REFERENCED TO THE NEAREST HUNDRETH IN XXXXXX.XX, E XXXXXX.XX, CL ELEV XXXX.XX. SURVEY COORDINATES SHALL BE ACCURATE TO WITHIN 1.0 FOOT HORIZONTAL AND A TENTH OF A FOOT (0.10) OR LESS VERTICAL.

THE COORDINATES SHALL BE DOCUMENTED TO THE ENGINEER IN DIGITAL SPREADSHEET FORM AND SHALL INCLUDE THE APPLICABLE ITEM, STATION, NORTHING, EASTING, AND CENTERLINE ELEVATION. COORDINATES SHALL BE SUBMITTED TO THE ENGINEER ON A BI-WEEKLY BASIS.

PLOT SCALE: 1:1069.3591 EDIT DATE: 4/24/20 - 3:05 PM EDITED BY: JRPERRY DRAWING FILE: C:\2019\00069D_DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\DRAWER E\2019.00069 E.MOT PLAN.DWG

TEMPORARY TRAFFIC CONTROL

1.

ALL TEMPORARY TRAFFIC CONTROL (TTC) DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (CURRENT EDITION). COPIES ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, OFFICE OF CONTRACTS, 1980 WEST BROAD STREET, COLUMBUS, OHIO 43223. NOTE: ALL DEVICES SHALL COMPLY, FOR CONDITION AND LOCATION, WITH THE CURRENT EDITION OF THE NCHRP 350 AND MASH CRASH TESTING GUIDELINES.
2.

CONSTRUCTION OPERATIONS SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL IS IN PLACE AND APPROVED BY THE DEPARTMENT OF PUBLIC SERVICE INSPECTOR. IF THE CONTRACTOR DOES NOT COMPLY WITH THE STANDARDS, INCLUDING THE INSTALLATION OF TEMPORARY PAVEMENT MARKINGS AND THE REMOVAL OF CONFLICTING TRAFFIC CONTROLS, THEIR PERMIT SHALL BE REVOKED AND ALL WORK SHALL BE TERMINATED. TEMPORARY PAVEMENT MARKINGS TO INCLUDE, BUT NOT LIMITED TO, CHANNELIZING LINES, EDGE LINES, AND CENTERLINES SHALL BE INSTALLED AND MAINTAINED ON ALL CONSTRUCTION OPERATIONS LASTING A MINIMUM OF 14 CALENDAR DAYS OR AS DIRECTED BY THE TEMPORARY TRAFFIC CONTROL COORDINATOR OR THE PROJECT ENGINEER.
3.

THE CONTRACTOR SHALL GIVE ADVANCE NOTIFICATION (WRITTEN AND VERBALLY) TO THE TEMPORARY TRAFFIC CONTROL COORDINATOR AT 614-645-0355 OR 614-645-5845. WRITTEN NOTIFICATION TO PAVING THE WAY AT PAVINGTHEWAY@MORPC.ORG OR VERBAL TO (614)233-4200, PROJECT ENGINEER, AND THE SENIOR SERVICE PLANNER OF COTA AT 614-308-4373 OR FAX 614-275-5933, INFORMING THEM OF ALL UPCOMING MAINTENANCE OF TRAFFIC CHANGES ON A WEEKLY BASIS. NOTIFICATION SHALL INCLUDE, BUT NOT BE LIMITED TO, WHAT, WHERE, WHEN, AND HOW PEDESTRIAN AND VEHICULAR TRAFFIC WILL BE AFFECTED, AND THE TEMPORARY TRAFFIC CONTROL PROCEDURES THE CONTRACTOR IS PLANNING TO USE. THE TYPE OF TRAFFIC CHANGE SHALL DETERMINE THE LENGTH OF ADVANCE NOTIFICATION REQUIRED.

TYPE OF CHANGE	ADVANCE NOTIFICATION NEEDED
DETOURS/ROAD CLOSURES	30-DAY NOTIFICATION PRIOR TO CLOSURE.
LANE CLOSURES LASTING 2 WEEKS OR MORE	2-WEEKS
LANE CLOSURES OF LESS THAN 2 WEEKS	3-DAYS
LANE CLOSURES OF 2 DAYS OR LESS	1-DAY

THE COTA SENIOR SERVICE PLANNER SHALL BE CONTACTED 30 DAYS PRIOR TO ANY PLANNED CLOSURE ON ASSIGNED COTA ROUTES. ANY OTHER UNFORESEEN IMPACTS TO TRAFFIC SHALL BE IMMEDIATELY REPORTED AS THEY OCCUR.
4.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND SAFE MOVEMENT OF PEDESTRIANS THROUGH, AROUND, OR DETOURED AWAY FROM THE CONSTRUCTION SITE. TRAFFIC CONTROL FOR PEDESTRIAN MOVEMENT SHALL BE AS PER CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS, AND FIGURES 6H-28 (TA-28) AND 6H-29 (TA-29) OF PART VI OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. WHEN NOT SHOWN ON A SIGNED PLAN, ALL SIDEWALK DIVERSIONS AND TEMPORARY MID-BLOCK CROSSINGS SHALL BE PRE-APPROVED BY THE PROJECT ENGINEER OR THE TEMPORARY TRAFFIC CONTROL COORDINATOR. ACCESS FOR PEDESTRIAN AND VEHICULAR TRAFFIC TO ALL ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
5.

MAINTAINING TRAFFIC DURING HOLIDAYS AND SPECIAL EVENTS

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING DESIGNATED HOLIDAYS OR SPECIAL EVENTS INCLUDING THE OHIO STATE FOOTBALL HOME GAMES. THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. CONTACT THE CITY OF COLUMBUS TEMPORARY TRAFFIC CONTROL COORDINATOR, 614-645-5845 OR CELL, 614-332-7472 FOR EVENT DATES, LOCATIONS, AND SCHEDULE. HOLIDAYS WILL CONSIST OF CHRISTMAS, NEW YEARS, FOURTH OF JULY-RED, WHITE AND BOOM FIREWORKS NIGHT (6:00AM-12MIDNIGHT), MEMORIAL DAY, LABOR DAY, AND THANKSGIVING. RED, WHITE AND BOOM, FIREWORKS CELEBRATION AND A MINIMUM OF ONE DAY PRIOR TO FIREWORKS NIGHT SHALL REQUIRE ALL TEMPORARY TRAFFIC CONTROL DEVICES TO BE REMOVED FROM THE PROJECT AREA AND PLACE EITHER IN A PRE-DETERMINED LOCATION APPROVED BY THE TEMPORARY TRAFFIC CONTROL COORDINATOR OR COMPLETELY REMOVED FROM THE SITE.
6.

THE CONTRACTOR SHALL CONTACT THE CITY OF COLUMBUS TEMPORARY TRAFFIC CONTROL COORDINATOR FOR ANY ADDITIONAL MOT REQUIREMENTS FOR SPECIAL EVENTS, INCLUDING OSU FOOTBAL HOME GAMES.
7.

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 OR COVERED, AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR MISSING, DAMAGED, OR IMPROPERLY PLACED SIGNS.
8.

ANY WORK DONE BY THE DEPARTMENT OF PUBLIC SERVICE, INCLUDING INSTALLATION, RELOCATION, REMOVAL AND/OR REPLACEMENT OF TEMPORARY TRAFFIC CONTROL DEVICES AS A RESULT OF WORK DONE BY THE CONTRACTOR OR AS A RESULT OF NEGLIGENCE OF THE CONTRACTOR, SHALL BE AT THE CONTRACTORS' EXPENSE.
9.

THE ROADWAY SHALL NOT BE OPENED TO NON-CONSTRUCTION TRAFFIC UNTIL THE CRITICAL PERMANENT TRAFFIC CONTROLS ARE IN PLACE, OR UNTIL TEMPORARY TRAFFIC CONTROLS APPROVED BY THE ENGINEER, ARE INSTALLED. THE CRITICAL PERMANENT TRAFFIC CONTROLS ARE STOP, YIELD, ONE WAY, DO NOT ENTER, RESTRICTED TURN SIGNS AND ALL STREET NAME SIGNS. OTHER CRITICAL SIGNS MAY BE NOTED ON THE PLANS AS WELL. THE CONTRACTOR ASSUMES ALL LIABILITY FOR THE PREMATURE REMOVAL OF TEMPORARY TRAFFIC CONTROLS.
10. ITEM 614 - MAINTAINING TRAFFIC
- ALL COSTS THAT CONSIST OF MAINTAINING AND PROTECTING VEHICULAR AND PEDESTRIAN TRAFFIC ACCORDING TO THE LATEST EDITION OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (OMUTCD), AND PER THE REQUIREMENTS DESIGNATED IN THE PLAN INCLUDING ALL LAW ENFORCEMENT OFFICER (LEO) AND FLAGGER HOURS SHALL BE INCLUDED IN THE LUMP SUM ITEM 614. IN ADDITION TO THE REQUIREMENTS HEREIN, AND THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, A UNIFORMED LAW ENFORCEMENT OFFICER (LEO) SHALL BE PROVIDED FOR CONTROLLING TRAFFIC UNDER THE FOLLOWING CONDITIONS:

 - WORK WITHIN A SIGNALIZED INTERSECTION, DEFINED AS THE AREA BOUNDED BY THE REAR X-WALK LINES
 - WHEN FLAGGING WITHIN THE INTERSECTION OF TWO ARTERIAL ROADWAYS
 - WHEN SPECIFIED IN THE MAINTENANCE OF TRAFFIC PLAN OR AS WHEN DIRECTED BY THE PROJECT ENGINEER
 - WHEN SHIFTING TRAFFIC LEFT OF CENTER, THROUGH A SIGNALIZED INTERSECTION, WITHOUT SHIFTING SIGNAL HEADS

A FLAGGER SHALL BE UTILIZED TO ASSIST IN CONTROLLING TRAFFIC WHILE EQUIPMENT IS ENTERING OR EXITING AN INTERSECTION OR WORK ZONE. THE CONTRACTOR MAY UTILIZE HIS OWN FLAGGER OR LEO UNDER PAY ITEM 614 MAINTAINING TRAFFIC, LUMP SUM. FLAGGERS AND LEO'S SHALL BE EQUIPPED ACCORDING TO THE STANDARDS FOR FLAGGING TRAFFIC CONTAINED IN THE OMUTCD. FLAGGING OPERATIONS PERFORMED BY LEO'S OR DESIGNATED FLAGGERS SHALL ONLY BE PERMITTED AS LONG AS ALL TRAFFIC CONTROL IS IN PLACE ACCORDING TO FIGURE 6H-10 (TA-10) IN THE OHIO MANUAL. PATROL CARS SHALL NOT BE USED IN FLAGGING OPERATIONS.

IF THE CONTRACTOR WISHES TO UTILIZE LEO'S WITH OR WITHOUT PATROL CARS FOR TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THE PLANS, THEY MAY DO SO AT THEIR OWN EXPENSE. THE CONTRACTOR SHALL MAKE ARRANGEMENT THROUGH THE COLUMBUS POLICE DIVISION AT (614) 645-4795.

LEO'S SHALL BE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH EMPLOYED BY THE CONTRACTOR, THE CITY REPRESENTATIVE SHALL HAVE CONTROL OVER THEIR PLACEMENT. LEO'S SHALL NOT HAVE THE AUTHORITY TO CHANGE, EDIT OR MODIFY ANY MAINTENANCE OF TRAFFIC SCHEME WITHOUT THE PERMISSION OF THE TEMPORARY TRAFFIC CONTROL COORDINATOR OR PROJECT ENGINEER UNLESS AN EMERGENCY DEVELOPS.

IF A SAFETY HAZARD DEVELOPS, A LEO MAY BE ASSIGNED BY THE COLUMBUS PUBLIC SAFETY AND/OR THE PUBLIC SERVICE DIRECTOR AT THE CONTRACTOR'S EXPENSE.

11.

TYPE C STEADY-BURN OR TYPE D 360-DEGREE STEADY-BURN WARNING LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT. ONLY 42" REFLECTORIZED CHANNELIZING DEVICES (CONES) SHALL BE PERMITTED FOR NIGHTTIME WORK WITH THE APPROVAL OF THE TTC COORDINATOR AT 614-645-0355 OR 614-645-5845 PER O.D.O.T. STANDARDS.

12.

A FLASHING ARROW PANEL (48" X 96"-TYPE C) SHALL BE USED IN LANE CLOSURES AS PER THE OHIO MANUAL.

13.

ALL TRENCHES WITHIN THE ROAD RIGHT OF WAY SHALL BE BACKFILLED OR SECURELY PLATED PER (CITY OF COLUMBUS GENERAL POLICY ON STEEL PLATE USAGE DATED 11/15/2006 AND STD. DWG. 1441, LATEST EDITION) DURING NON-WORKING HOURS.

14.

ALL TRAFFIC LANES SHALL BE FULLY OPEN TO TRAFFIC FROM 6:00A.M. TO 9:00 A.M. AND 4:00P.M. TO 6:00 P.M., OR 6:00 TO 9:00 A.M. AND 3:00 TO 6:00 P.M. IN THE COLUMBUS BUSINESS DISTRICT (CBD) PARKING AREA, MONDAY THROUGH FRIDAY ON SHOOK ROAD AND STATE ROUTE 317. ONE LANE MAY BE CLOSED TO TRAFFIC DURING WORKING HOURS.

15.

TWO-WAY, TWO-LANE (ONE-LANE EACH DIRECTION) TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF EXISTING, PROPOSED, OR TEMPORARY PAVEMENT PER CITY OF COLUMBUS MAINTENANCE OF TRAFFIC, STANDARD CONSTRUCTION DRAWING 1510 AND FIGURE 6H-32 TYPICAL APPLICATION 32 (TA-32) OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

16.

THE CONTRACTOR SHALL CONTACT OHIO UTILITY PROTECTION SERVICE (OUPS) TO LOCATE AND MARK ALL UNDERGROUND TRAFFIC CONTROL CABLES PRIOR TO THE BEGINNING OF ANY WORK WITHIN 450 FEET OF ANY SIGNALIZED INTERSECTION(S) OR WITHIN ANY POSTED AREA WHERE THE DEPARTMENT HAS UNDERGROUND CABLE. THE SIGNAL OPERATION ENGINEER (614-645-6418) SHALL BE NOTIFIED SIX (6) WEEKS IN ADVANCE FOR SIGNAL REVISIONS OR POLE RELOCATIONS.

17.

NO EXCAVATION SHALL BE MADE WITHIN FIVE (5) FEET OF ANY FOUNDATION THAT SUPPORTS SIGNAL POLES, TRAFFIC SIGNAL DISPLAYS OR SIGNS BY MAST ARM OR SIGNAL SPAN. EXCAVATION WITHIN EIGHT (8) FEET, BUT MORE THAN FIVE (5) FEET SHALL REQUIRE ADDITIONAL SUPPORT (DOWN GUY, HEAD GUY, BASE GUY, ETC.). THE CONTRACTOR SHALL CONTACT SIGNAL OPERATION PERSONNEL AT 614-645-0423(CELL 614-419-4501) AT LEAST FORTY-EIGHT (48) HOURS (EXCLUDING SAT. & SUN.) PRIOR TO THE BEGINNING OF SUCH EXCAVATION SO THAT THE CITY CAN APPROVE THE STABILIZATION SETUP BY THE CONTRACTOR. IF UNABLE TO MAKE CONTACT THROUGH ABOVE NUMBERS, CALL 614-645-7393. STABILIZATION WILL BE DONE BY THE CONTRACTOR AT THE OWNERS/CONTRACTING AGENCY'S EXPENSE.

18.

SIGNAL CONDUIT CLEARANCE 3" HORIZONTAL AND 1" VERTICAL FROM ADJACENT UTILITIES SHALL BE MAINTAINED AT ALL TIMES.

19.

WHEN ANY TRAFFIC CONTROL DEVICE, CONDUIT, OR CABLE IS DAMAGED, THE CONTRACTOR SHALL NOTIFY SIGNAL OPERATION PERSONNEL AT 614-645-0423 (CELL 614-419-4501) BETWEEN 7:00 AM AND 4:00 PM, MONDAY THROUGH FRIDAY. IF UNABLE TO MAKE CONTACT THROUGH THE OTHER NUMBERS, CALL 614-645-7393.

20.

THE ROADWAY OR ANY SECTION OF ROADWAY SHALL NOT BE OPENED TO NON-CONSTRUCTION TRAFFIC UNTIL ALL TEMPORARY, NON-REFLECTIVE, BLACKOUT TAPE HAS BEEN COMPLETELY REMOVED FROM NON-CONFLICTING PERMANENT PAVEMENT MARKINGS FOR THAT AREA OF THE ROADWAY, OR UNLESS OTHERWISE DIRECTED IN WRITING BY THE ENGINEER. THIS IS SUPPLEMENTAL TO CITY OF COLUMBUS, CMS-614.11- G, AND SHALL BE PAID FOR THROUGH THE 614-LUMP SUM.

21.

THE DURATION OF THE PHASE OF WORK TO CONSTRUCT IMPROVEMENTS TO THE RIGHT-OF-WAY, WHICH MAY AFFECT VEHICULAR OR PEDESTRIAN TRAFFIC AS SHOWN IN THE PLANS, IS 30 DAYS. THE PERMIT ASSOCIATED WITH THIS WORK I NOT TO BE VALID FOR OTHER PROJECT WORK ITEMS AND PHASES.

FRANKLIN COUNTY MAINTENANCE OF TRAFFIC NOTES - (APPLIES TO FRANKLIN COUNTY SECTION OF SHOOK RD

TWO-WAY ONE-LANE TRAFFIC IS PERMITTED DURING WORKING NON-PEAK HOURS (9AM-4PM) IN ACCORDANCE WITH ODOT STANDARD CONSTRUCTION DRAWING MT-97.10 OR MT-97.11, EXCEPT THAT LAW ENFORCEMENT OFFICERS (L.E.O.S) WITH PATROL CARS SHALL BE SUBSTITUTED FOR EACH FLAGGER.

THE CONTRACTOR SHALL NOTIFY THE COUNTY ENGINEER'S MOBILITY DEPARTMENT AT 614-525-6036 TWO WEEKS PRIOR TO BEGINNING WORK, AND WEEKLY THEREAFTER, TO DISCUSS ANY CHANGES TO THE MAINTENANCE OF TRAFFIC PLAN AND/OR COMPLETION DATE. BEFORE WORK IS STARTED ON THIS PROJECT THE CONTRACTOR SHALL SUBMIT A WRITTEN SCHEDULE OF OPERATION AND A TRAFFIC MAINTENANCE CONTROL PLAN FOR APPROVAL. NO WORK WILL BE STARTED THAT WILL RESTRICT ANY LANE USAGE UNLESS IT IS THE INTENT OF THE CONTRACTOR TO WORK FULL TIME WITH A FULL FORCE IN ORDER TO COMPLETE THE WORK WITHOUT UNNECESSARY DELAYS.

THE FOLLOWING DEVICES MUST MEET NCHRP 350 OR MASH-08 BEFORE THE DEVICES ARE INSTALLED ON THE PROJECT: DRUMS, CONES, VERTICAL PANELS AND THE PANEL SUPPORT, PORTABLE SIGN SUPPORTS, TEMPORARY IMPACT ATTENUATORS, TEMPORARY CONCRETE BARRIER, AND BARRICADES.

CONES ARE APPROVED FOR DAYTIME USE ONLY. DRUMS SHALL BE USED AT NIGHT AND HAVE YELLOW TYPE C STEADY BURN LIGHTS. CONES AND DRUMS SHALL BE PLACED AS FOLLOWS: 25' C/C ON TANGENTS, 15' C/C ON TAPERS, AND 8' C/C IN RADII, OR AS SPECIFIED IN MT-97.10 OR MT-95.30.

ALL SIGNS NINE SQUARE FEET (36" X 36") AND OVER SHALL HAVE YELLOW TYPE A LOW INTENSITY FLASHING WARNING LIGHTS AND TWO FLAGS.

The diagram illustrates the maintenance of traffic plan for S.R. 317 (London Groveport Rd) at its intersection with Shook Rd. A north arrow is located in the upper right corner. The plan shows the intersection where S.R. 317 runs horizontally and Shook Rd runs vertically. The intersection is labeled 'INTERSECTION OF S.R. 317 & SHOOK RD IS SIGNALIZED'. To the west of the intersection, a 'LAW ENFORCEMENT OFFICER (LEO) AS REQUIRED PER NOTE 10, THIS SHEET' is positioned. To the east, a 'FLAGGER AS REQUIRED PER STD DWG 1550' is shown managing traffic. Lane closures are indicated by 'EX-R/W' (Exclusive Right of Way) labels along S.R. 317. The plan also shows existing lane markings including 'PL' (Paved Lane) and 'SH' (Shoulder) lines. A dashed line indicates the 'S.R. 317 (LONDON-GROVEPORT RD)' alignment.

S.R. 317 (LONDON GROVEPORT RD)
MAINTENANCE OF TRAFFIC PLAN
1" = 100'

MAINTENANCE OF TRAFFIC NOTES

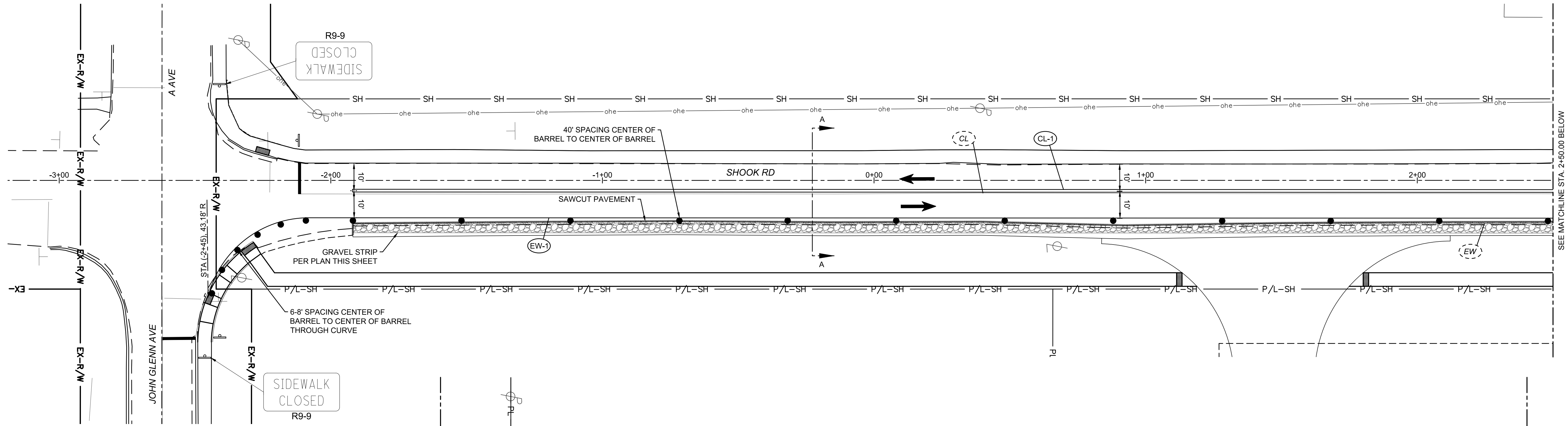
SHOOK ROAD
FROM LONDON-GROVEPORT RD. TO JOHN GLENN AVE.
S.R. 317 (LONDON-GROVEPORT RD)
FROM SHOOK RD. TO A POINT APPROXIMATELY 720' EAST OF SHOOK RD.

CALCULATED	MHS
CHECKED	BJM

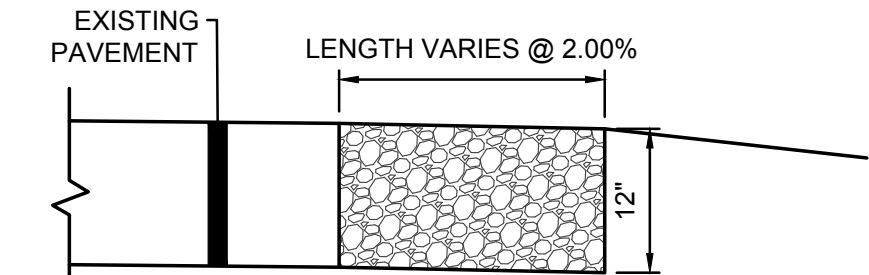
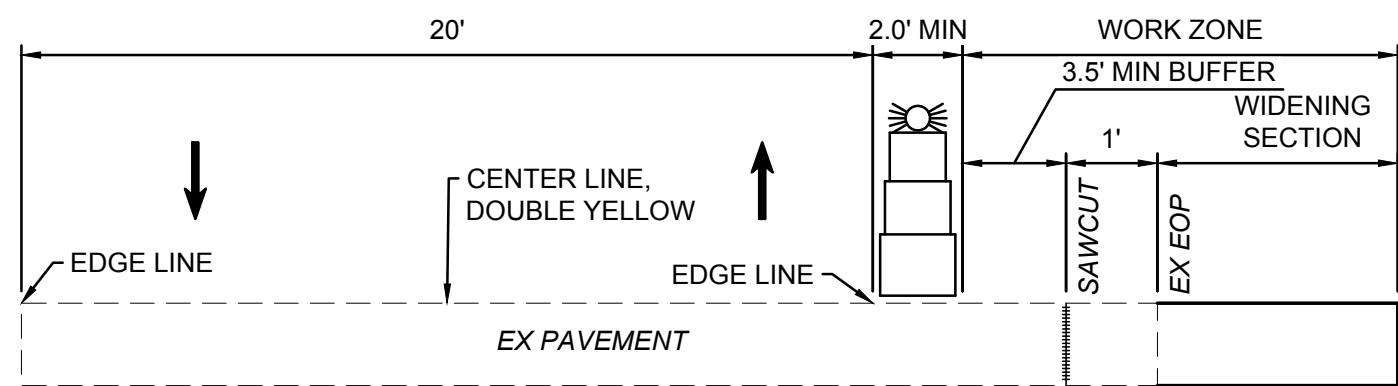
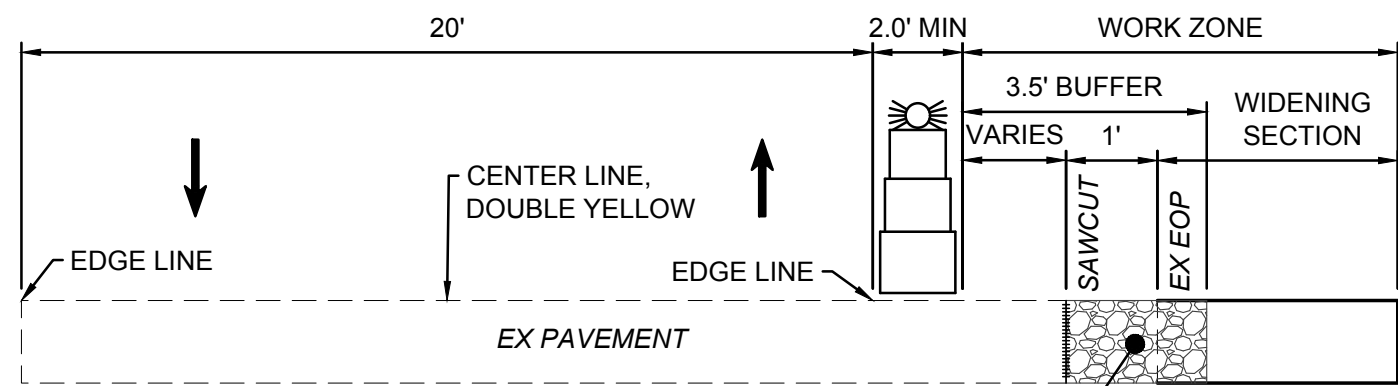
4
12

3627 - E

PLOT SCALE: 1:1069.3591 EDIT DATE: 4/24/20 - 3:05 PM EDITED BY: JRPERRY DRAWING FILE: C:\2019\00069D\CONSTRUCTION DOCUMENTS\DRAWER E\2019.00069 E.MOT PLAN.DWG



- LEGEND**
- TRAFFIC FLOW
 - CENTERLINE, 5"
 - EDGE LINE, 5" (WHITE)
 - EX CENTERLINE, 5"
 - EX EDGE LINE, 5" (WHITE)
 - CONSTRUCTION BARRELS
 - SAWCUT PAVEMENT LINE



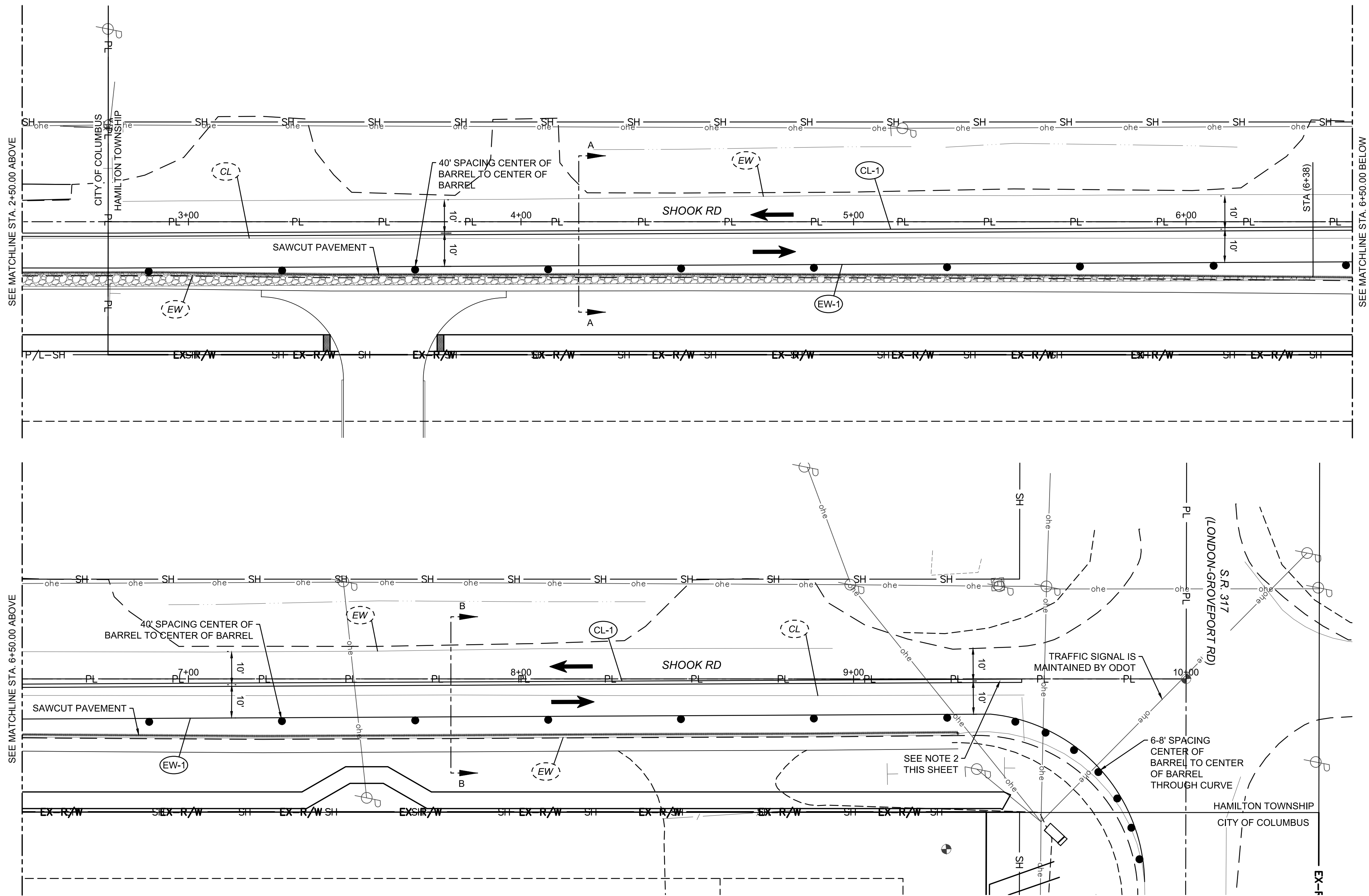
- NOTE:**
- ODOT #3 STONE SHALL BE CLEAN, DOUBLE WASHED, BANK RUN GRAVEL OR CRUSHED AGGREGATE, FREE OF ROCK DUST, FINES, OR SOIL PARTICLES.

NOTE:

TWO LANE TRAFFIC TO BE MAINTAINED DURING THE CONSTRUCTION OF THE PAVEMENT SHOULDER. DURING MILL AND OVERLAY CONTRACTOR TO MAINTAIN ONE-LANE OPERATION PER ODOT SCD MT-97.10 AS NEEDED.

NOTE 2:

CONTRACTOR SHALL SUBMIT A SEPARATE MOT PLAN TO ODOT AND THE FRANKLIN COUNTY ENGINEER TO ACCOUNT FOR SHIFTED CENTERLINE AT THE INTERSECTION



SEE MATCHLINE STA. 2+50.00 BELOW

SEE MATCHLINE STA. 6+50.00 BELOW

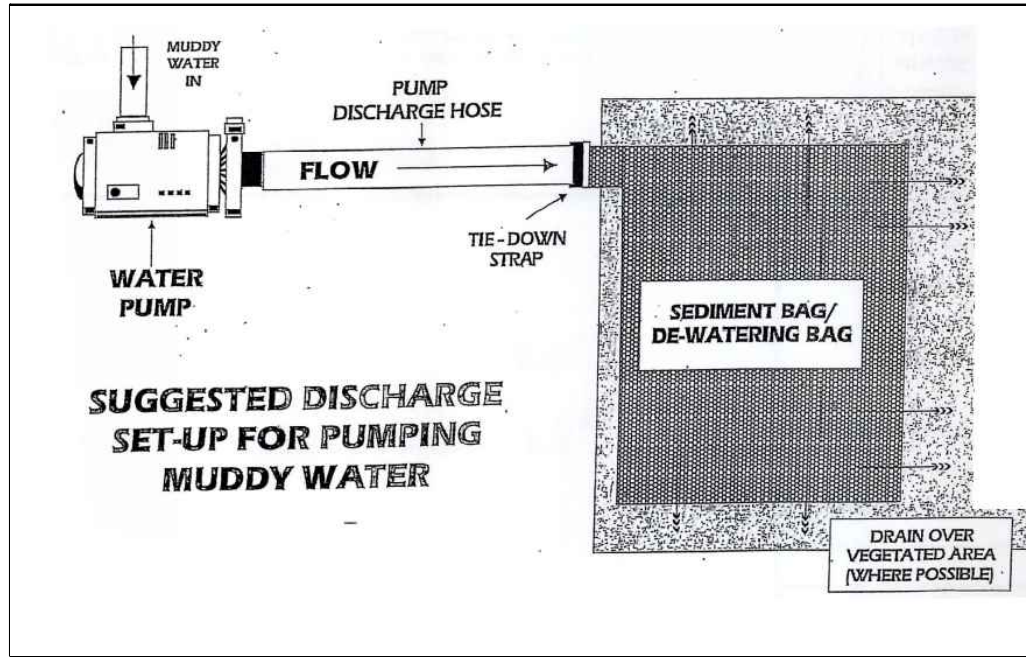
SEE MATCHLINE STA. 10+00.00 ABOVE

3627 - E

PLOT SCALE: 1" = 11' EDIT DATE: 4/24/20 - 8:51 AM EDITED BY: JPPERRY DRAWING FILE: O:\2019\00069\CDRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\DRAWER E\2019\00069 E STREET PLANS DWG

SITE NARRATIVE

PLAN DESIGNER AMERICAN STRUCTUREPOINT, INC. 2550 CORPORATE EXCHANGE DR., STE 300 COLUMBUS, OHIO 43231 CONTACT: BENJAMIN J. MILLER PHONE: (614) 901-2235 EMAIL: bmill@structurepoint.com	DEVELOPER/ON-SITE CONTACT DAMON HOOD ARCO DESIGN/BUILD MIDWEST, INC. PROJECT MANAGER PHONE: (317) 308-2700 EMAIL: dhood@arcodb.com
PROJECT DESCRIPTION:	ACTIVITIES INCLUDE THE CONSTRUCTION OF A 4' PAVED SHOULDER, 4' SIDEWALK, ENTRANCE DRIVES, CURB RAMPS, STRIPPING, AND SIGNAGE
RECEIVING STREAM:	STORMWATER FACILITIES CONSTRUCTED AS PART OF CC-18509, EVENTUALLY DRAINING TO THE SCIOTO RIVER.
DISTURBED AREA:	13.58 ACRES (3627-E & CC-18509)
SITE BMPS:	FINAL LOCATIONS OF ALL SITE BMPS, INCLUDING DUMPSTERS, VEHICLE FUELING AREAS, CONCRETE TRUCK WASH, MATERIAL STORAGE, AND TOPSOIL STOCKPILES SHALL BE DETERMINED BY CONTRACTOR. IF FINAL LOCATION OF BMPS DIFFER FROM THE LOCATIONS SHOWN, CONTRACTOR SHALL MODIFY SWPPP AND INFORM OHIO EPA OF NEW LOCATIONS OF BMPS.
ADJACENT AREAS:	EAST: APARTMENT BUILDING COMPLEX NORTH: LONDON- GROVEPORT ROAD AND INDUSTRIAL FACILITIES WEST: FARM FIELD SOUTH: JOHN GLENN AVENUE AND INDUSTRIAL FACILITY
GRADING REQUIREMENTS:	DISTURBED AREAS WILL BE PROTECTED BY SILT FENCE.
EROSION & SEDIMENT CONTROL MEASURES:	A COMBINATION OF MEASURES WILL BE USED TO PROVIDE EROSION & SEDIMENT CONTROL, INCLUDING SILT FENCE AND SEEDING. PROVIDE INLET PROTECTION AT ALL NEW AND EXISTING DRAINAGE STRUCTURES. ANY OFF SITE BORROW OR SPOIL AREAS SHALL BE SUBJECT TO THE REQUIREMENTS SET FORTH BY THE OHIO EPA. ALL EROSION AND SEDIMENT CONTROL MEASURES FOR OFF-SITE AREAS NOT COVERED BY A SEPARATE NOI OR SWPPP SHALL BE COORDINATED WITH THE OHIO EPA. ALL TRENCH OR EXCAVATION GROUNDWATER CONTAINING SEDIMENT MUST BE EFFECTIVELY TREATED PRIOR TO DISCHARGE INTO THE STORM SEWER SYSTEM. USE ALL MEANS NECESSARY TO CONTROL DUST ON THE SITE AND PREVENT TRACKING SOIL OFF SITE.
PERMANENT STABILIZATION:	THE SITE WILL BE STABILIZED BY THE USE OF SEEDING OR SODDING IN LAWN AREAS.
MAINTENANCE:	ALL EROSION CONTROL DEVICES ARE TO BE INSPECTED BY THE CONSTRUCTION SUPERINTENDENT WEEKLY AND AFTER SIGNIFICANT RAINFALLS. ANY DAMAGED FACILITIES ARE TO BE REPLACED OR REPAIRED IMMEDIATELY AS MAY BE NECESSARY.
GENERAL CONSTRUCTION SEQUENCE:	(UNLESS NOTED OTHERWISE, ALL EROSION AND SEDIMENT CONTROL MEASURES FROM THE BEGINNING OF EARTH DISTURBING ACTIVITIES TO FINAL COMPLETION OF THE PROJECT ARE THE RESPONSIBILITY OF THE CONTRACTOR) 1 - ESTABLISH CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT CONSTRUCTION AREA 2 - CONSTRUCT TEMPORARY SEDIMENT CONTROLS AND PERIMETER EROSION CONTROL MEASURES, INCLUDING CONSTRUCTION ENTRANCE, AND SILT FENCE. MEASURES SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN 7 DAYS OF FIRST GRUBBING. 3 - CLEAR AND GRUB 4 - STRIP AND STOCKPILE TOPSOIL. SEED STOCKPILES. PROVIDE PERIMETER SILT FENCE AT TOE OF STOCKPILE SLOPE. 5 - PERFORM ROUGH GRADING AND EXCAVATION. STABILIZE AREAS AS INDICATED HEREIN. 6 - INSTALL STORM SEWERS, OUTLET STRUCTURE, AND INLET FILTERS. 7 - COMPLETE ALL PAVEMENT ACTIVITIES. 8 - COMPLETE FINE GRADING OF SEEDED AREAS AND STABILIZE DISTURBED AREAS. 9 - ONCE FINAL SEED HAS BEEN ESTABLISHED, CONTRACTOR TO REMOVE TEMPORARY EROSION CONTROL MEASURES AND CLEAN ALL SEDIMENT FROM STRUCTURES AND PAVEMENT. SEDIMENT/WATER QUALITY BASIN SHALL BE CLEANED OF ALL ACCUMULATED SEDIMENT AND RESTORED TO THE ORIGINAL DESIGN CONTOURS SHOWN ON THESE PLANS. 10 - PRIOR TO FINISHING WORK, ALL AREAS OF THE SITE DISTURBED BY CONSTRUCTION ACTIVITY (INCLUDING, BUT NOT LIMITED TO MATERIAL STORAGE AREAS, TRAILER AREAS, FUELING AREAS, TRUCK WASH AREAS, EQUIPMENT PATHS, HAUL ROADS, ETC.) SHALL BE RESTORED TO THEIR ORIGINAL CONDITIONS, OR IF IN AREAS OF PROPOSED IMPROVEMENTS, TO THEIR PROPOSED CONDITIONS. ALL STONE, TRASH, AND DEBRIS SHALL BE REMOVED FROM THE SOIL. THE UPPER 12" OF SOIL SHALL BE SCARIFIED, AND AREA SHALL BE GRADED TO SUBGRADE WITH SUITABLE MATERIALS. FURNISH 6" MINIMUM OF TOPSOIL AND SEED ALL AREAS.
SCHEDULE:	THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE OWNER. SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE PLACED IN ACCORDANCE WITH THIS SCHEDULE.
JURISDICTION:	ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATIONS AT THE DISCRETION OF CITY OF COLUMBUS AND/OR THE OHIO EPA.
OEPA NOI:	AGC06796*AG
RUNOFF COEFFICIENTS:	PRE-DEVELOPED: C = 0.48 IMPERVIOUS AREA = 0.73 ACRES POST-DEVELOPED: C = 0.77 IMPERVIOUS AREA = 9.04 ACRES



NOTICE

THE PUMPING OR DIRECT DISCHARGE OF SEDIMENT-LADEN (MUDDY) WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS.

ALL INLETS RECEIVING FLOW FROM RUNOFF, PUMPING ACTIVITIES, OR OTHER DIRECT DISCHARGES SHALL BE FITTED WITH AN INLET PROTECTION DEVICE THAT IS PROPERLY SIZED AND SECURED TO REDUCE THE DISCHARGE OF SEDIMENT INTO THE STORM SEWER SYSTEM AND RECEIVING STREAM. INLET PROTECTION IS REQUIRED ON ALL INLETS RECEIVING DISCHARGE REGARDLESS OF WHETHER OR NOT THE INLET IS TRIBUTARY TO ANY DOWNSTREAM EROSION AND SEDIMENT CONTROLS.

DISCHARGE HOSES USED DURING PUMPING ACTIVITIES SHALL BE FITTED WITH SEDIMENT BAGS THAT ARE PROPERLY SIZED PER MANUFACTURER'S RECOMMENDATIONS REGARDLESS OF WHAT OTHER SEDIMENT CONTROLS ARE IN PLACE FURTHER DOWNSTREAM. SEDIMENT BAGS MUST BE PROPERLY SECURED TO THE DISCHARGE HOSE AND PLACED OVER VEGETATED AREAS, WHERE FEASIBLE, DURING DISCHARGE. SEE DETAIL BELOW OF A TYPICAL SEDIMENT BAG INSTALLATION.

EROSION CONTROL NOTES:

- ALL EROSION CONTROL FACILITIES SHALL BE INSTALLED PRIOR TO ANY SITE GRADING OPERATIONS. ALL APPLICABLE GOVERNING AGENCIES MUST BE NOTIFIED UPON COMPLETION OF THE INSTALLATION OF THE REQUIRED EROSION FACILITIES AND PRIOR TO ANY GRADING OPERATION BEING COMMENCED. IF DAMAGED OR REMOVED DURING CONSTRUCTION, ALL EROSION CONTROL FACILITIES SHALL BE RESTORED AND IN PLACE AT THE END OF EACH WORK DAY.
- ANY EROSION CONTROL FACILITIES DEEMED NECESSARY BY THE GOVERNING AGENCIES; BEFORE, DURING OR AFTER THE GRADING ACTIVITIES, SHALL BE INSTALLED AT THEIR REQUEST.
- FLOWS FROM DIVERSION CHANNELS OR PIPES (TEMPORARY OR PERMANENT) SHALL BE ROUTED TO SEDIMENTATION BASINS OR APPROPRIATE ENERGY DISSIPATORS TO PREVENT TRANSPORT OF SEDIMENT TO OUTFLOW TO LATERAL CONVEYORS AND TO PREVENT EROSION AND SEDIMENTATION WHEN RUNOFF FLOWS INTO THESE CONVEYORS.
- SITE ACCESS ROADS SHALL BE GRADED OR OTHERWISE PROTECTED WITH SILT FENCES, DIVERSION CHANNELS, OR DIKES AND PIPES TO PREVENT SEDIMENT FROM EXITING THE SITE VIA THE ACCESS ROADS. SITE-ACCESS ROADS/DRIVEWAYS SHALL BE SURFACED WITH CRUSHED ROCK WHERE THEY ADJOIN EXISTING PAVED ROADWAYS.
- SOILS TRACKED FROM THE SITE BY MOTOR VEHICLES OR EQUIPMENT SHALL BE CLEANED DAILY FROM PAVED ROADWAY SURFACES, OR MORE FREQUENTLY IF REQUESTED BY GOVERNING AGENCIES, THROUGHOUT THE DURATION OF CONSTRUCTION.
- DUST CONTROL MEASURES SHALL BE PERFORMED PERIODICALLY WHEN CONDITIONS REQUIRE AND/OR AS DIRECTED BY THE GOVERNING AGENCIES.
- ALL EROSION CONTROL MEASURES SHALL BE USED AND MAINTAINED FOR THE DURATION OF SITE CONSTRUCTION. IF CONSTRUCTION OPERATIONS OR NATURAL EVENTS DAMAGE OR INTERFERE WITH THESE EROSION CONTROL MEASURES, THEY SHALL BE RESTORED TO SERVE THEIR INTENDED FUNCTION AT THE END OF EACH DAY OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
- ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED AS SOON AS POSSIBLE. ANY AREAS WHICH HAVE BEEN FINISHED GRADED SHALL BE SODDED. AREAS THAT HAVE BEEN DISTURBED AND FOR WHICH GRADING OR SITE BUILDING CONSTRUCTION OPERATIONS ARE NOT ACTIVELY UNDERWAY SHALL BE TEMPORARILY SEEDED AND MULCHED AS REQUIRED BY GOVERNING AGENCIES.
- RUNOFF SHALL BE PREVENTED FROM ENTERING ALL STORM SEWER CATCH BASINS PROVIDING THEY ARE NOT NEEDED DURING CONSTRUCTION. WHERE STORM SEWER CATCH BASINS ARE NECESSARY FOR SITE DRAINAGE DURING CONSTRUCTION, A SILT FENCE OR SEDIMENT PROTECTION DEVICES SHALL BE INSTALLED AND MAINTAINED AROUND ALL CATCH BASINS UNTIL THE TRIBUTARY AREA TO THE CATCH BASIN IS RESTORED.
- EROSION CONTROL FACILITIES SHALL BE INSTALLED AND MAINTAINED AROUND THE PERIMETER OF ALL LAKES, PONDS, AND WETLANDS, IF ANY WITHIN OR ADJACENT TO THE AREA TO BE GRADED UNTIL THE AREA TRIBUTARY TO THE LAKE, POND, OR WETLAND IS RESTORED.
- TO MINIMIZE EROSION, ALL 3:1 SLOPES OR GREATER SHALL BE COVERED WITH A TEMPORARY EROSION CONTROL BLANKET OR STAKED SOD.
- ACCUMULATION OF ALL SEDIMENT OCCURRING IN STORM SEWERS, DITCHES, LAKES, PONDS, WETLANDS SHALL BE REMOVED PRIOR TO, DURING AND AFTER COMPLETION OF GRADING ACTIVITIES, AT NO ADDITIONAL COST TO OWNER.
- EROSION CONTROL ITEMS AND DEVICES SHALL BE REMOVED ONLY AFTER THE AREA HAS RECEIVED FINAL STABILIZATION.

SEDIMENT AND EROSION CONTROL NOTES:

MAINTENANCE & INSPECTION PROCEDURES:
ALL CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EACH WEEK AND WITHIN 24 HOURS FOLLOWING ANY STORM EVENT OF 0.5 INCHES OR GREATER.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE SEDIMENTATION AND EROSION CONTROL FEATURES ON THIS PROJECT. ANY SEDIMENT OR DEBRIS WHICH REDUCES THE EFFICIENCY OF A CONTROL FEATURE SHALL BE REMOVED IMMEDIATELY. SHOULD A STRUCTURE OR FEATURE BECOME DAMAGED, THE CONTRACTOR SHALL REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER AND IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.

TEMPORARY SEEDING AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION, AND A WRITTEN LOG MUST BE KEPT. THIS LOG SHALL INDICATE THE DATE OF THE INSPECTION, NAME OF THE INSPECTOR, WEATHER CONDITIONS, OBSERVATIONS, ANY CORRECTIVE ACTIONS TAKEN, AND BE SIGNED IN ACCORDANCE WITH THE CONDITIONS OF THE NPDES PERMIT. ANY CONTROL MEASURE MUST BE REPAIRED/REPLACED WITHIN THREE DAYS OF INSPECTION.

PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL BE TRAINED IN ALL INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ON-SITE IN GOOD WORKING ORDER. A WRITTEN DOCUMENT CONTAINING THE SIGNATURES OF ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED IN THE IMPLEMENTATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE MAINTAINED AS PROOF ACKNOWLEDGING THAT THEY REVIEWED AND UNDERSTAND THE CONDITIONS AND RESPONSIBILITIES OF THE PLAN. THE DOCUMENT SHALL BE CREATED BY THE CONTRACTOR SIGNED PRIOR TO THE START OF CONSTRUCTION.

DISPOSAL OF SOLID/SANITARY/TOXIC WASTE:
SOLID, SANITARY, AND TOXIC WASTE MUST BE DISPOSED OF IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS

IT IS PROHIBITED TO BURN, BURY, OR POUR OUT ONTO THE GROUND OR INTO A STORM SEWER WATER CONVEYANCE ANY SOLVENTS, PAINTS, STAINS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CEMENT CURING COMPOUNDS, AND OTHER SUCH SOLID AND HAZARDOUS WASTES.

ANY RINSE WATERS OF SUCH MATERIAL ARE ALSO PROHIBITED FROM BEING PLACED WHERE THEY MAY ENTER DRAINAGEWAYS.

WASH OUT OF CEMENT TRUCKS SHOULD OCCUR IN A DIKED, DESIGNATED AREA, AWAY FROM ANY CONVEYANCE CHANNEL.

COORDINATE WASH OUT AREA WITH CONSTRUCTION MANAGER.

CONTRACTORS RESPONSIBILITIES:
THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL TIMES.

DETAILS HAVE BEEN PROVIDED ON THE PLANS IN AN EFFORT TO HELP THE CONTRACTOR PROVIDE EROSION AND SEDIMENTATION CONTROL. THE DETAILS SHOWN ON THE PLAN SHALL BE CONSIDERED A MINIMUM. ADDITIONAL OR ALTERNATE DETAILS MAY BE FOUND IN THE ODMR MANUAL "RAINWATER AND LAND DEVELOPMENT". THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING NECESSARY AND ADEQUATE MEASURES FOR PROPER CONTROL OF EROSION AND SEDIMENT RUNOFF FROM THE SITE ALONG WITH PROPER MAINTENANCE, AND INSPECTION IN COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORM DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES.

THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE OWNER. THE SCHEDULE SHOULD INCLUDE A SEQUENCE OF THE PLACEMENT OF THE SEDIMENTATION AND EROSION CONTROL MEASURES THAT PROVIDES FOR CONTINUAL PROTECTION OF THE SITE THROUGHOUT EARTH MOVING ACTIVITIES.

PRIOR TO CONSTRUCTION OPERATIONS IN A PARTICULAR AREA, ALL SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE IN PLACE. FIELD ADJUSTMENTS WITH RESPECT TO LOCATIONS AND DIMENSIONS MAY BE MADE BY THE ENGINEER AND/OR THE OHIO EPA.

THE CONTRACTOR SHALL PLACE INLET PROTECTION FOR THE SEDIMENTATION CONTROL IMMEDIATELY AFTER CONSTRUCTION OF THE CATCH BASINS OR INLETS WHICH ARE NOT TRIBUTARY TO A SEDIMENT BASIN OR DAM.

IT MAY BECOME NECESSARY TO REMOVE PORTIONS OF SEDIMENTATION CONTROLS DURING CONSTRUCTION TO FACILITATE THE GRADING OPERATIONS IN CERTAIN AREAS. HOWEVER, THE CONTROLS SHALL BE REPLACED UPON GRADING OR DURING ANY INCLEMENT WEATHER.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT OFFSITE TRACKING OF SEDIMENTS BY VEHICLES AND EQUIPMENT IS MINIMIZED. ALL SUCH OFFSITE SEDIMENT SHALL BE CLEANED UP DAILY.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT NO SOLID OR LIQUID WASTE IS DISCHARGED INTO STORM WATER RUNOFF. UNTREATED SEDIMENT-LADEN RUNOFF SHALL NOT FLOW OFFSITE WITHOUT BEING DIRECTED THROUGH A CONTROL PRACTICE.

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE INTO OR ALONG SIDE RIVERS, STREAMS, CREEKS, NATURAL OR MAN-MADE CHANNELS OR SWALES LEADING THERETO. CONCRETE WASH WATER AND SURPLUS CONCRETE SHALL BE CONFINED TO APPROVED AREAS. AFTER SOLIDIFYING THESE WASTED MATERIALS SHALL BE REMOVED FROM THE SITE.

STABILIZATION PROCEDURES

CONTRACTOR SHALL BE RESPONSIBLE TO KEEP A RECORD OF DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN EARTH DISTURBANCE HAS TEMPORARILY OR PERMANENTLY CEASED ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES HAVE BEEN INITIATED. THE LIMITS OF SEEDING AND MULCHING ARE AS SHOWN WITHIN THE PLAN AS INDICATED BY THE LIMITS OF DISTURBANCE. ALL AREAS NOT DESIGNATED TO BE SEEDED SHALL REMAIN UNDER NATURAL GROUND COVER. THOSE AREAS DISTURBED OUTSIDE THE SEEDING LIMITS SHALL BE SEEDED AND MULCHED AT THE CONTRACTOR'S EXPENSE.

TEMPORARY STABILIZATION
TOPSOIL STOCKPILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY CEASES FOR AT LEAST 21 DAYS WILL BE STABILIZED WITH TEMPORARY SEED AND MULCH NO LATER THAN 7 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. DISTURBED AREAS WITHIN 50 FEET OF A STREAM, FIRST ORDER OR LARGER, SHALL BE STABILIZED WITHIN 2 DAYS OF INACTIVITY. TEMPORARY STABILIZATION MUST BE APPLIED TO ANY AREA OF THE SITE WHICH WILL REMAIN IDLE OVER THE WINTER. THE TEMPORARY SEED SHALL BE RYE (GRASS) APPLIED AT A RATE OF 25 LBS PER 1000 SY. PRIOR TO SEEDING, 900 LBS OF GROUND AGRICULTURAL LIMESTONE AND 200 LBS OF 10-20-20 FERTILIZER SHALL BE APPLIED TO EVERY 1000 SY STABILIZED. IMMEDIATELY AFTER ANY GIVEN AREA IS SEEDED, STRAW OR HAY SHALL BE EVENLY PLACED OVER ALL SEEDED AREAS. TWO TONS PER ACRE FOR STRAW, OR 3 TONS PER ACRE FOR HAY SHALL BE PLACED WHEN SEEDING IS PERFORMED BETWEEN THE DATES OF MARCH 15 AND OCTOBER 15. THREE TONS PER ACRE STRAW, OR 4.5 TONS PER ACRE FOR HAY, SHALL BE PLACED WHEN SEEDING IS PERFORMED BETWEEN THE DATES OF OCTOBER 15 AND MARCH 15 OF THE SUCCEEDING YEAR. IF DORMANT SEEDING IS BEING USED FOR STABILIZATION, SEED SHALL BE PLANTED AFTER NOVEMBER 20. AREAS TO BE PAVED SHALL BE TEMPORARILY STABILIZED BY APPLYING STONE BASE UNTIL BITUMINOUS PAVEMENT CAN BE APPLIED.

IN ADDITION TO TEMPORARY SEEDING, THE CONTRACTOR SHALL PLACE A FILTER FABRIC BARRIER AROUND THE BASE OF ALL SOIL STOCKPILES.

PERMANENT STABILIZATION
DISTURBED PORTIONS OF THE SITE WHEN CONSTRUCTION HAS COMPLETED, OR PORTIONS THAT WILL REMAIN DORMANT FOR LONGER THAN ONE YEAR, SHALL BE STABILIZED WITH PERMANENT SEED NO LATER THAN 7 DAYS AFTER FINAL GRADE HAS BEEN ESTABLISHED. THE PERMANENT SEED MIX SHALL CONSIST OF 280 LBS/ACRE OF TURF TYPE TALL FESCUE. PRIOR TO SEEDING, APPLY COMMERCIAL FERTILIZER AT THE RATE OF 1 LB ACTUAL NITROGEN PER 1000 SF. FERTILIZER TO HAVE 20-22-14 ANALYSIS. AFTER SEEDING, EACH AREA SHALL BE MULCHED USING TURFIBER (OR EQUIVALENT) AT A RATE OF 2000 LBS PER ACRE WITH 50 LBS OF TURFIBER ADDED PER 100 GALLONS OF MACHINE CAPACITY. KEEP HYDROMULCH FROM NON-TARGET AREAS INCLUDING PAVEMENT, PLANT MATERIALS, CURBING, AND STRUCTURES. IF THESE SURFACES ARE HIT DURING HYDROMULCHING OPERATIONS, WASH THE SURFACE IMMEDIATELY.

IF SEASONAL CONDITIONS PROHIBIT THE ESTABLISHMENT OF VEGETATIVE COVER, OTHER METHODS OF STABILIZATION, SUCH AS MULCHING WITH A TACKIFIER OR MATTING, MUST BE EMPLOYED AND MAINTAINED UNTIL A MORE PERMANENT METHOD CAN BE IMPLEMENTED.

CITY OF COLUMBUS EROSION CONTROL NOTES:

DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS. THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES.

THE USE OF PORTABLE CONCRETE WASHOUT UNITS IS APPROVED (AND ENCOURAGED) FOR ALL CONSTRUCTION AREAS IN THE CITY OF COLUMBUS.

THE EXACT LOCATION OF THE CONCRETE WASHOUT(S) MAY BE FIELD LOCATED BY THE ON-SITE PROJECT ENGINEER/CONTACT.

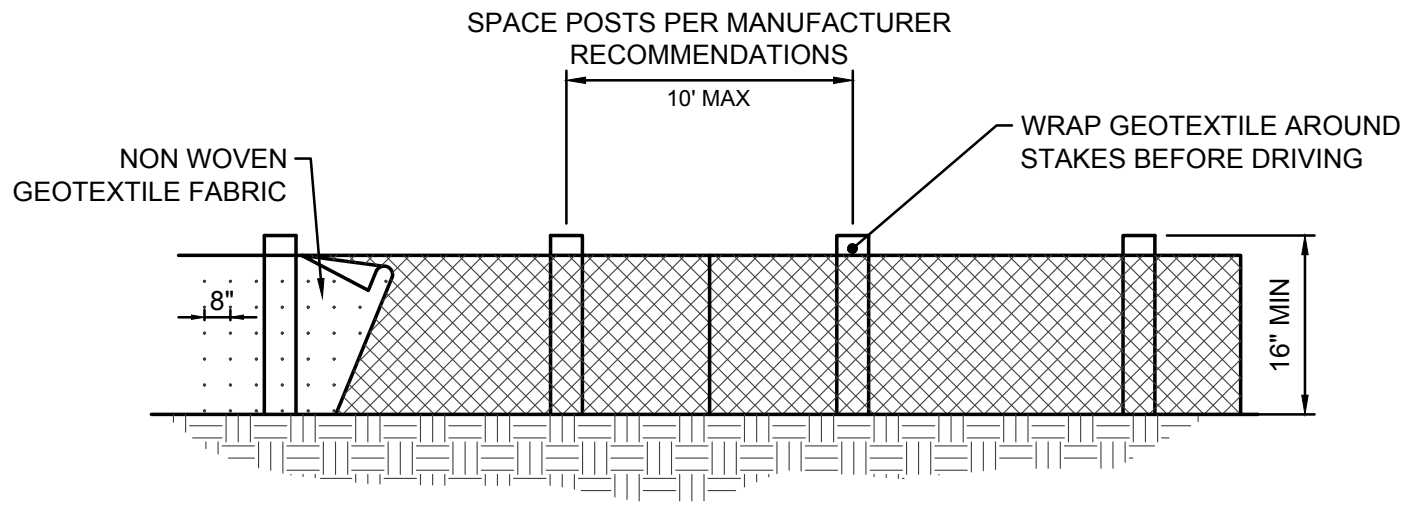
THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL TIMES.

UPPER BANK ABOVE NORMAL WATER ELEVATION SHOULD BE STABILIZED QUICKLY WITH STRAW BLANKETS, JUTTE MATTING, OR SIMILAR GEO-TEXTILE.

ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF COLUMBUS AND/OR THE OHIO EPA.

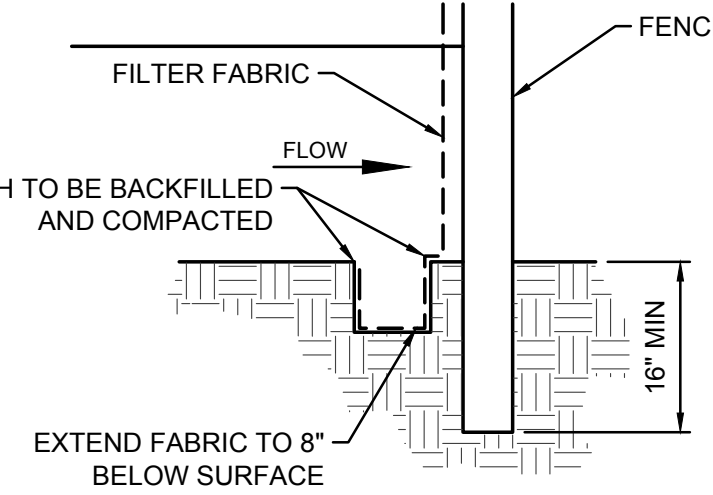
STREET CLEANING (ON AN AS-NEEDED BASIS) IS REQUIRED THROUGHOUT THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING, AND (IF NECESSARY) MANUAL REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS.

ANY EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL.



NOTES:

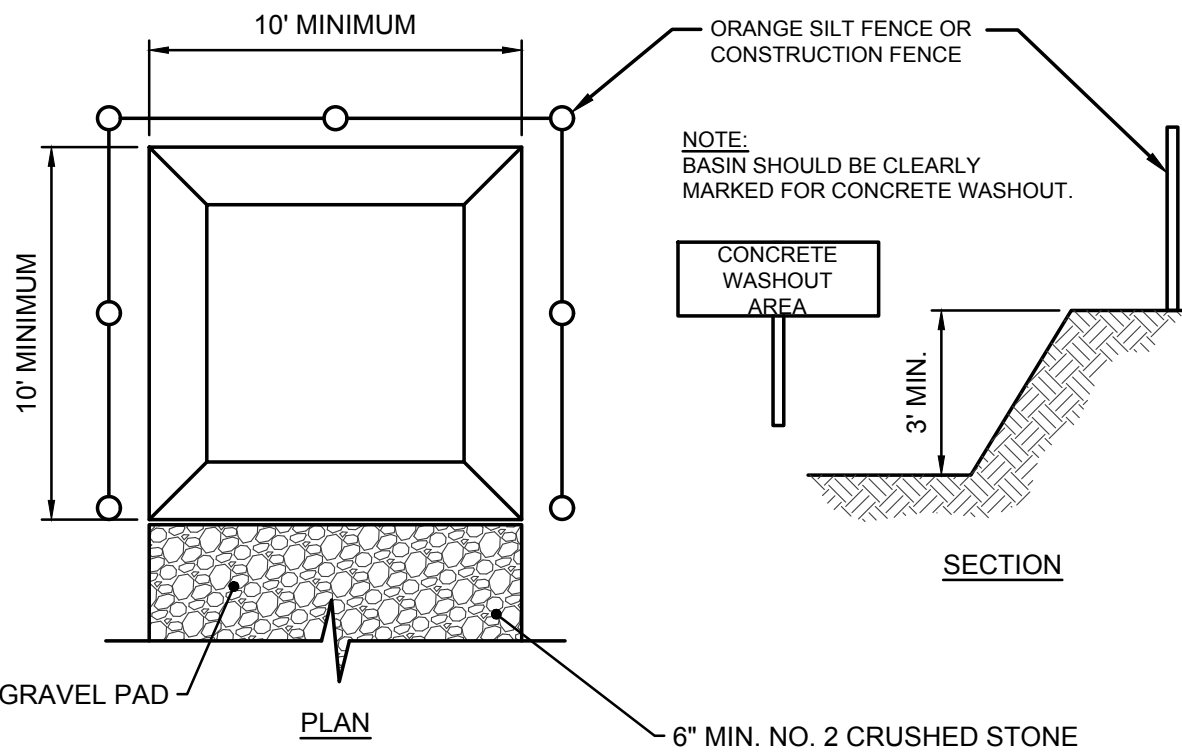
- FENCE POST SHALL BE A MINIMUM LENGTH OF 32 INCHES LONG PLUS BURIAL DEPTH, COMPOSED OF NOMINAL DIMENSIONED 2x2 INCH HARDWOOD OF SOUND QUALITY. ALTERNATELY POST MATERIAL SHALL BE STEEL OR SYNTHETIC AND SHALL BE OF SUFFICIENT STRENGTH TO RESIST DAMAGE DURING INSTALLATION, TO SUPPORT APPLIED LOADS, AND SO THE GEOTEXTILE CAN BE ADEQUATELY SECURED TO POST
- FABRIC SHALL BE A NEEDLE PUNCHED NON-WOVEN GEOTEXTILE FABRIC CONSISTING OF STRONG, ROT RESISTANT, MATERIALS RESISTANT TO DETERIORATION FROM ULTRAVIOLET AND HEAT EXPOSURE.
- MINIMUM 8" FABRIC BURY REQUIRED.
- ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
- THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY HALF THE HEIGHT OF THE SILT FENCE.



SILT FENCE (SEE SHEETS 7-8 FOR LOCATIONS)

NOT TO SCALE

TEMPORARY SEEDING			
SEEDING DATES	SPECIES	LB/1,000 SF	PER ACRE
MARCH 1 TO AUGUST 15	OATS	3	4 BUSHEL
	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
	PERENNIAL RYEGRASS	1	40 LB
	TALL FESCUE	1	40 LB
AUGUST 16 TO NOVEMBER 1	ANNUAL RYGRASS	1	40 LB
	RY	3	2 BUSHEL
	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
	WHEAT	3	2 BUSHEL
NOVEMBER 1 TO SPRING SEEDING	TALL FESCUE	1	40 LB
	ANNUAL RYGRASS	1	40 LB
	PERENNIAL RYEGRASS	1	40 LB
	TALL FESCUE	1	40 LB
	ANNUAL RYGRASS	1	40 LB
NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED			



NOTE:

- ACTUAL LAYOUT DETERMINED IN THE FIELD, BY CONTRACTOR.
- THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
- THE USE OF PORTABLE CONCRETE WASHOUT UNITS IS APPROVED (AND ENCOURAGED) FOR ALL CONSTRUCTION AREAS IN THE CITY OF COLUMBUS

CONCRETE WASHOUT AREA

NOT TO SCALE

MINIMUM CRITERIA FOR SILT FENCE FABRIC (ODOT, 2002)		
MINIMUM TENSILE STRENGTH	120 lbs (535 N)	ASTM D 4632
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 lbs (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 lbs (180 N)	ASTM D 4533
APPARENT OPENING SIZE	≤ 0.84 mm	ASTM D 4751
MINIMUM PERMITIVITY	1x10 ⁻² sec. ⁻¹	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM D 4355

NOTE:

THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE. STRAW WATTLES OR COMPOST ROLLS HAVE TO BE A MINIMUM OF 12 INCHES IN DIAMETER NOW (OEPA).

ADDITIONALLY: THE USE OF COMPOST FILTER SOCKS AND COMPOST BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED FOR USE ON ALL COLUMBUS SWP3 PLANS AND CONSTRUCTION SITES.

NOTE

ADDITIONAL STORMWATER PROTECTION NOTES AND MEASURES ARE PROVIDED ON CC-18509

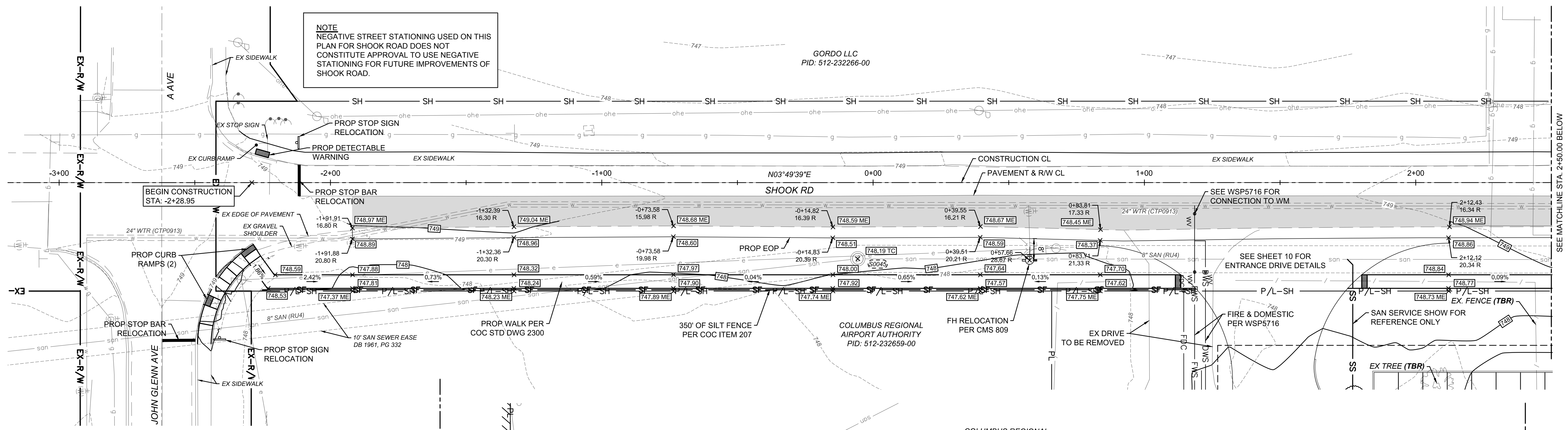
SWPPP PLAN

SHOOK ROAD
FROM LONDON-GROVEPORT RD. TO JOHN GLENN AVE.
S.R. 317 (LONDON-GROVEPORT RD)
FROM SHOOK RD. TO A POINT APPROXIMATELY 720' EAST OF SHOOK RD.

6

12

PLOT SCALE: 1:1 EDIT DATE: 4/24/20 - 8:51 AM EDITED BY: JRPERRY DRAWING FILE: O:\2019\000690.DRAWINGSCIVILCONSTRUCTION DOCUMENTS\DRAWER E\2019.00069 E STREET PLANS.DWG



EXISTING LINETYPE LEGEND

- PL — PROPERTY LINE
- EX-R/W — RIGHT-OF-WAY
- SH — STANDARD HIGHWAY EASEMENT
- PAVEMENT/SIDEWALK
- PAVEMENT STRIPING
- ROAD CENTERLINE
- FENCE
- stm — STORM SEWER
- san — SANITARY SEWER
- w — WATER LINE
- g — GAS LINE
- fo — FIBER OPTIC LINE
- ohe — OVERHEAD ELECTRIC
- t — TELECOMMUNICATION

PROPOSED LEGEND

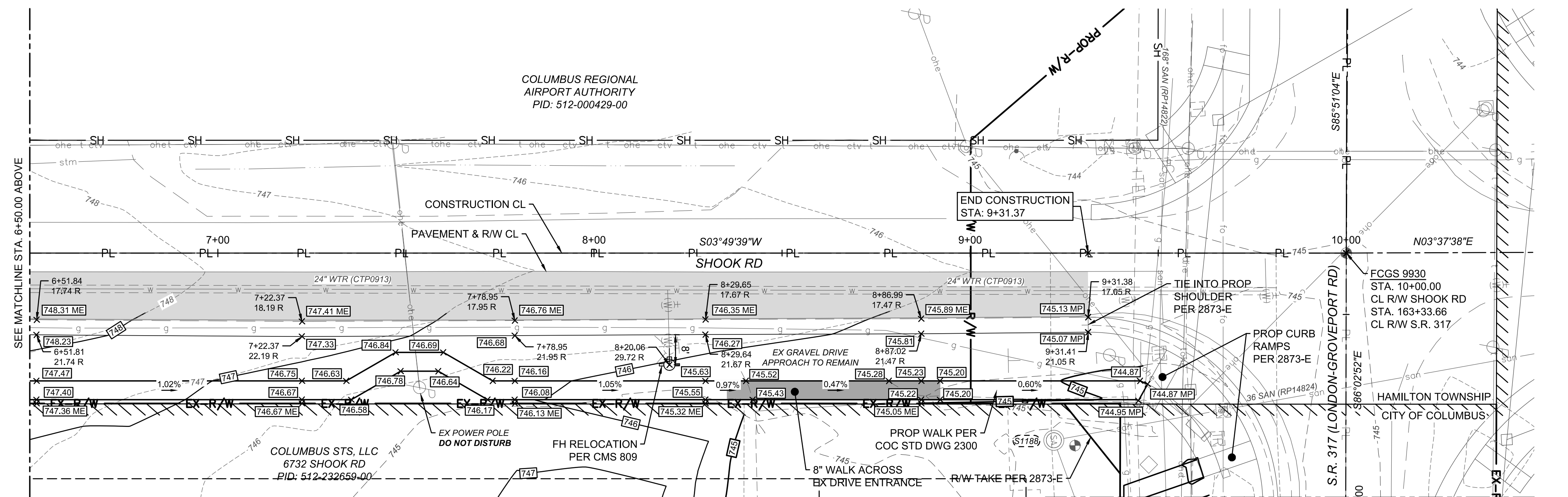
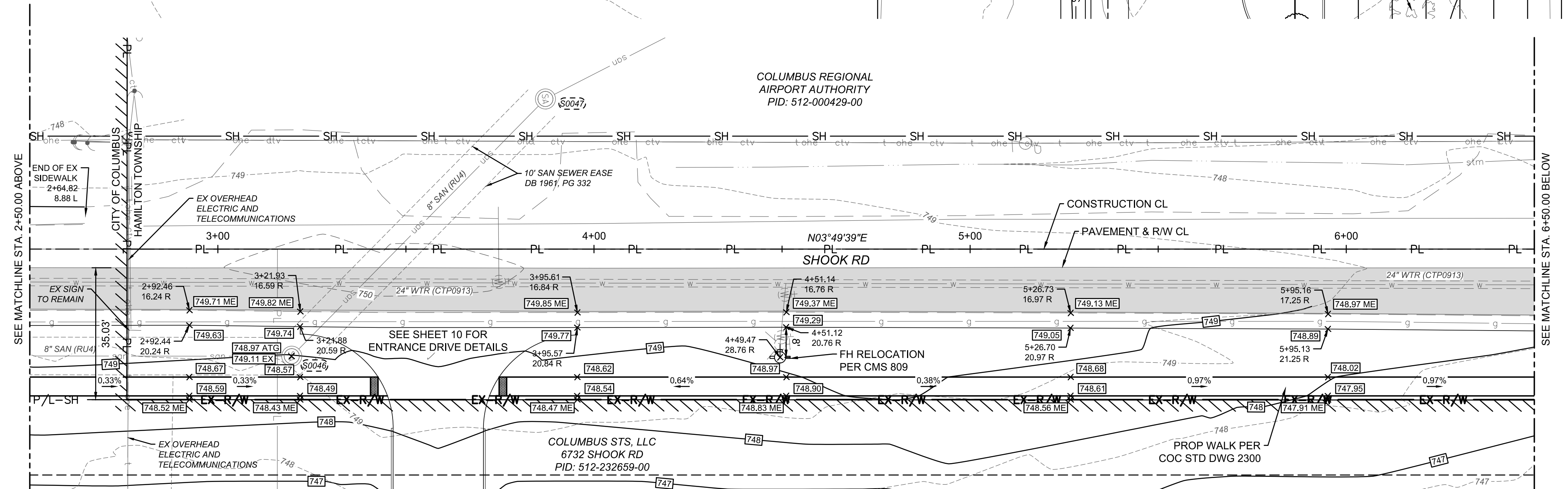
- PROP-R/W — PROPOSED RIGHT-OF-WAY
- XXX — PROPOSED MAJOR CONTOUR
- XXX — PROPOSED MINOR CONTOUR
- XXX — EXISTING MAJOR CONTOUR
- XXX — EXISTING MINOR CONTOUR
- XXX.XX ME SPOT ELEVATION
- XXX.XX ME MATCH EXISTING ELEVATION
- XXX.XX MP MATCH PROPOSED ELEVATION (PER 2873-E)
- XXX.XX ATG ADJUST TO GRADE
- XXX% SLOPE ARROWS
- MILL AND OVERLAY TO EX LONGITUDINAL JOINT

NOTES

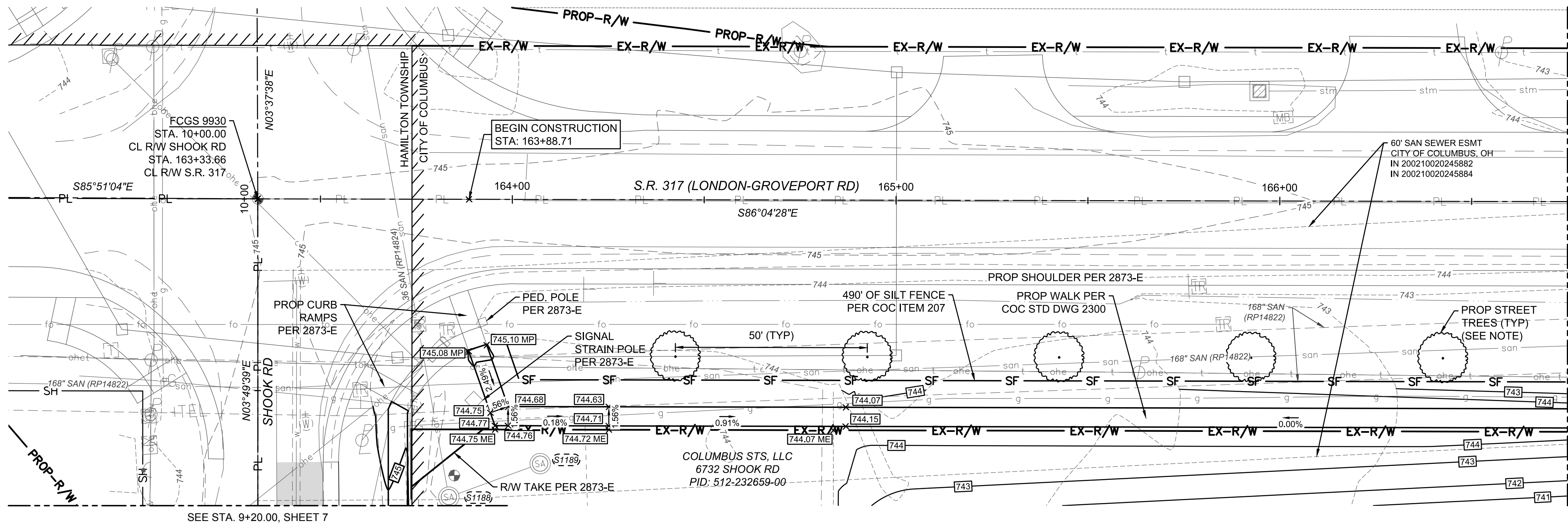
- CONNECTION TO THE SANITARY SEWER CANNOT BE MADE WITHOUT A SEWER PERMIT, TO BE OBTAINED FROM THE DPU PERMIT OFFICE AT 111 NORTH FRONT STREET, 1ST FLOOR, 614-645-7490.
- SANITARY SERVICES AND OTHER UTILITY CONNECTIONS ARE SHOWN ON THIS PLAN FOR REFERENCE ONLY. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THE SANITARY SERVICES, THEIR LOCATIONS OR ANY OTHER NON-STORM WATER UTILITY. CONTACT DPU PERMIT OFFICE AT 111 NORTH FRONT STREET FOR SANITARY SERVICE APPROVAL.
- ADDITIONAL STORMWATER PROTECTION NOTES AND MEASURES ARE PROVIDED ON CC-18509

EXISTING SYMBOLS LEGEND

- AIR CONDITIONER
- DRAINAGE INLET
- ELECTRIC METER
- FIRE HYDRANT
- GAS METER
- GAS VALVE
- GUY WIRE
- IRON PIN FOUND
- IRON PIN SET
- MAG NAIL SET
- PINE TREE
- POST
- POWER & LIGHT POLE
- POWER POLE
- RAILROAD SPIKE FOUND
- SANITARY MANHOLE
- SIGN
- TRAFFIC PULL BOX
- TREE
- WATER VALVE
- YARD LIGHT



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NOTE:

INSTALLATION OF STREET TREES MAY BE DEFERRED UNTIL AFTER FUTURE 2873-E IMPROVEMENTS ARE INSTALLED. COORDINATE INSTALLATION TIMELINE WITH CITY CONSTRUCTION INSPECTOR.

EXISTING LINETYPE LEGEND

- PL PROPERTY LINE
- EX-R/W RIGHT-OF-WAY
- SH STANDARD HIGHWAY EASEMENT
- PAVEMENT/SIDEWALK
- PAVEMENT STRIPING
- ROAD CENTERLINE
- FENCE
- stm STORM SEWER
- san SANITARY SEWER
- w WATER LINE
- g GAS LINE
- fo FIBER OPTIC LINE
- ohe OVERHEAD ELECTRIC
- t TELECOMMUNICATION

EXISTING SYMBOLS LEGEND

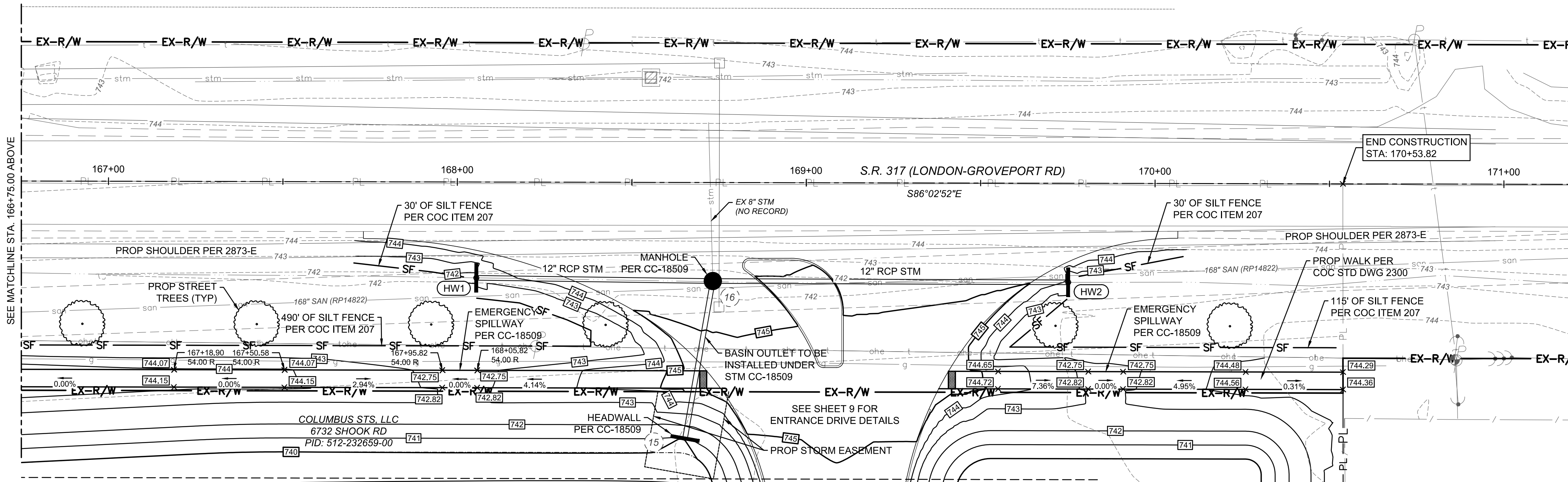
- AIR CONDITIONER
- DRAINAGE INLET
- ELECTRIC METER
- FIRE HYDRANT
- GAS METER
- GAS VALVE
- GUY WIRE
- IRON PIN FOUND
- IRON PIN SET
- MAG NAIL SET
- PINE TREE
- POST
- POWER & LIGHT POLE
- POWER POLE
- RAILROAD SPIKE FOUND
- SANITARY MANHOLE
- SIGN
- TRAFFIC PULL BOX
- TREE
- WATER VALVE
- YARD LIGHT

NOTE

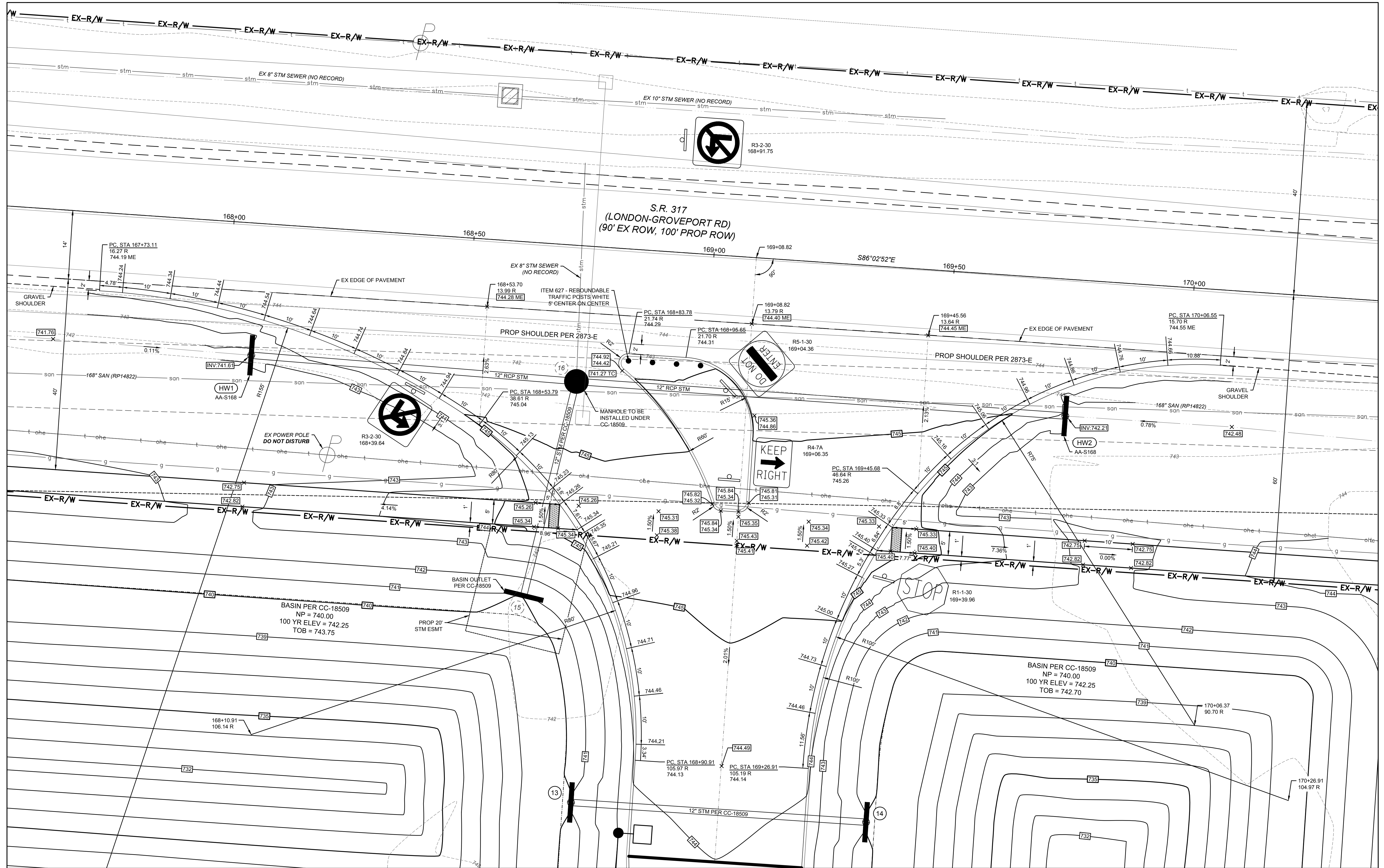
ADDITIONAL STORMWATER PROTECTION NOTES AND MEASURES ARE PROVIDED ON CC-18509

PROPOSED LEGEND

- PROPOSED RIGHT-OF-WAY
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- SPOT ELEVATION
- MATCH EXISTING ELEVATION
- MATCH PROPOSED ELEVATION (PER 2873-E)
- ADJUST TO GRADE
- SLOPE ARROWS
- PROP STORM STRUCTURE
- PROP STORM STRUCTURE (PER CC-18509)



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DETAIL - DRIVE ON S.R. 317 (LONDON-GROVEPORT RD) @ STATION 169+08.82
1" = 10'

0

10

20

HORIZONTAL

SCALE IN FEET

CALCULATED

MHS

CHECKED

BJM

SHOOK ROAD

FROM LONDON GROVEPORT RD. TO JOHN GLENN AVE.

S.R. 317 (LONDON-GROVEPORT RD)

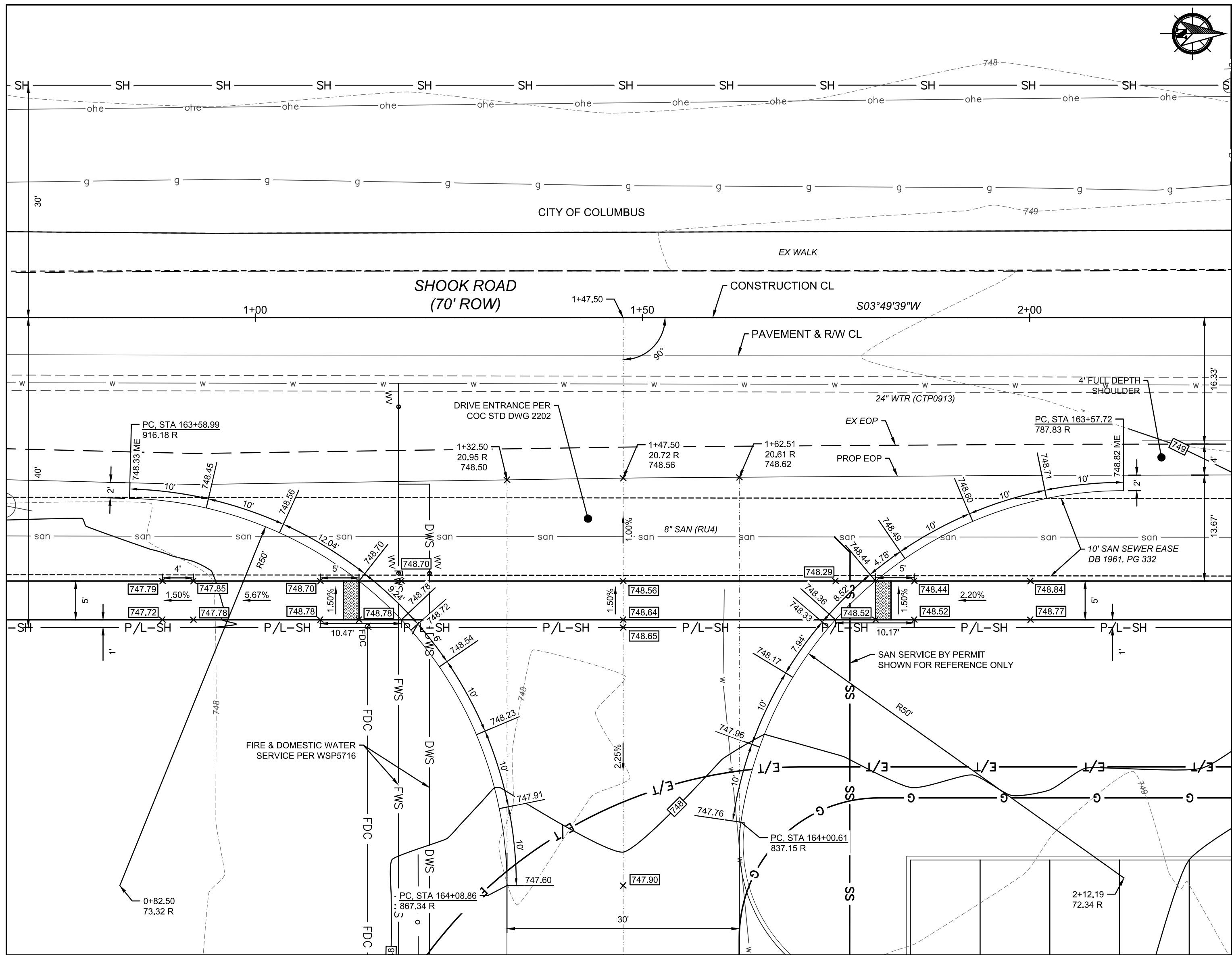
FROM SHOOK RD. TO A POINT APPROXIMATELY 720' EAST OF SHOOK RD.

9

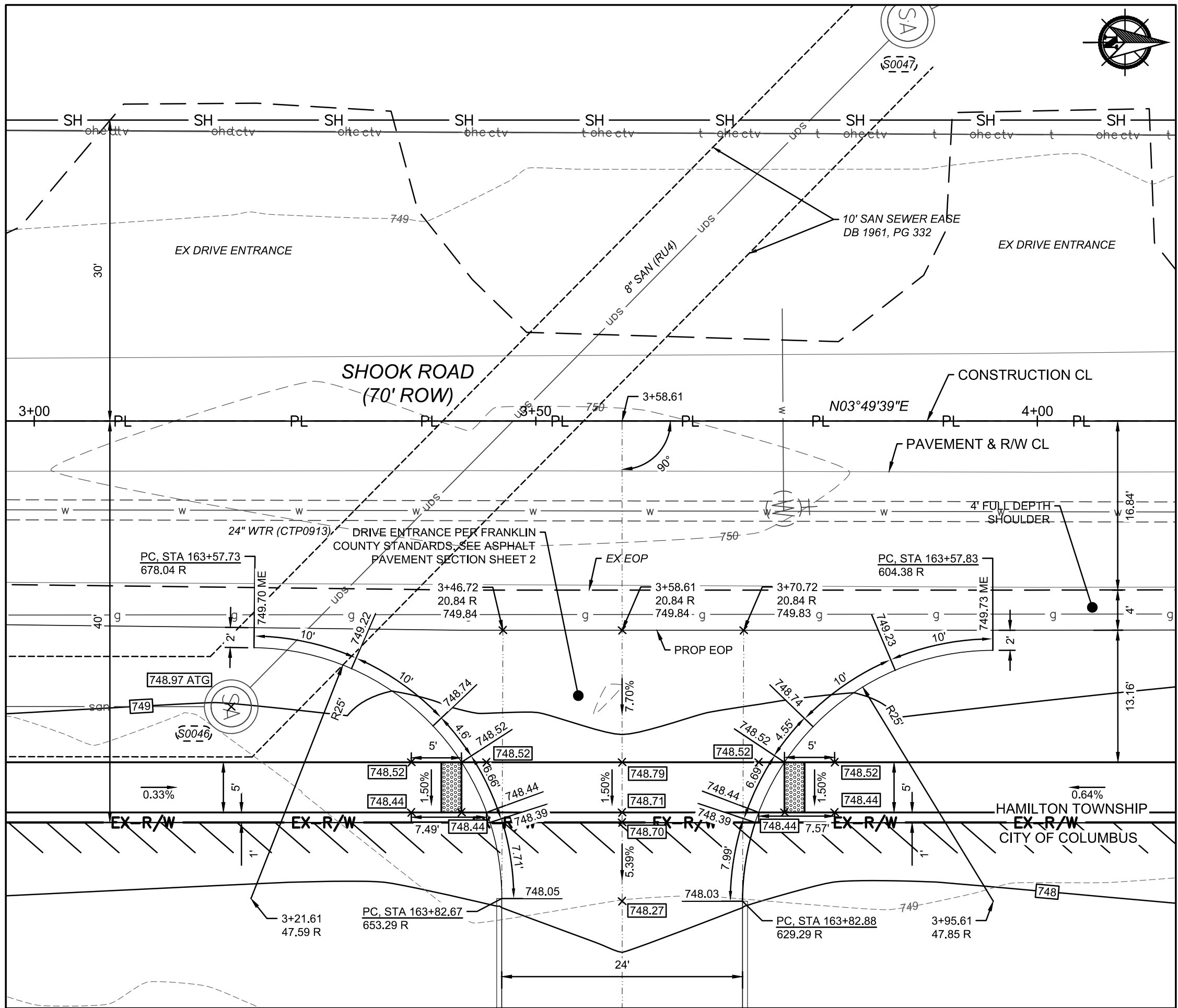
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3627 - E

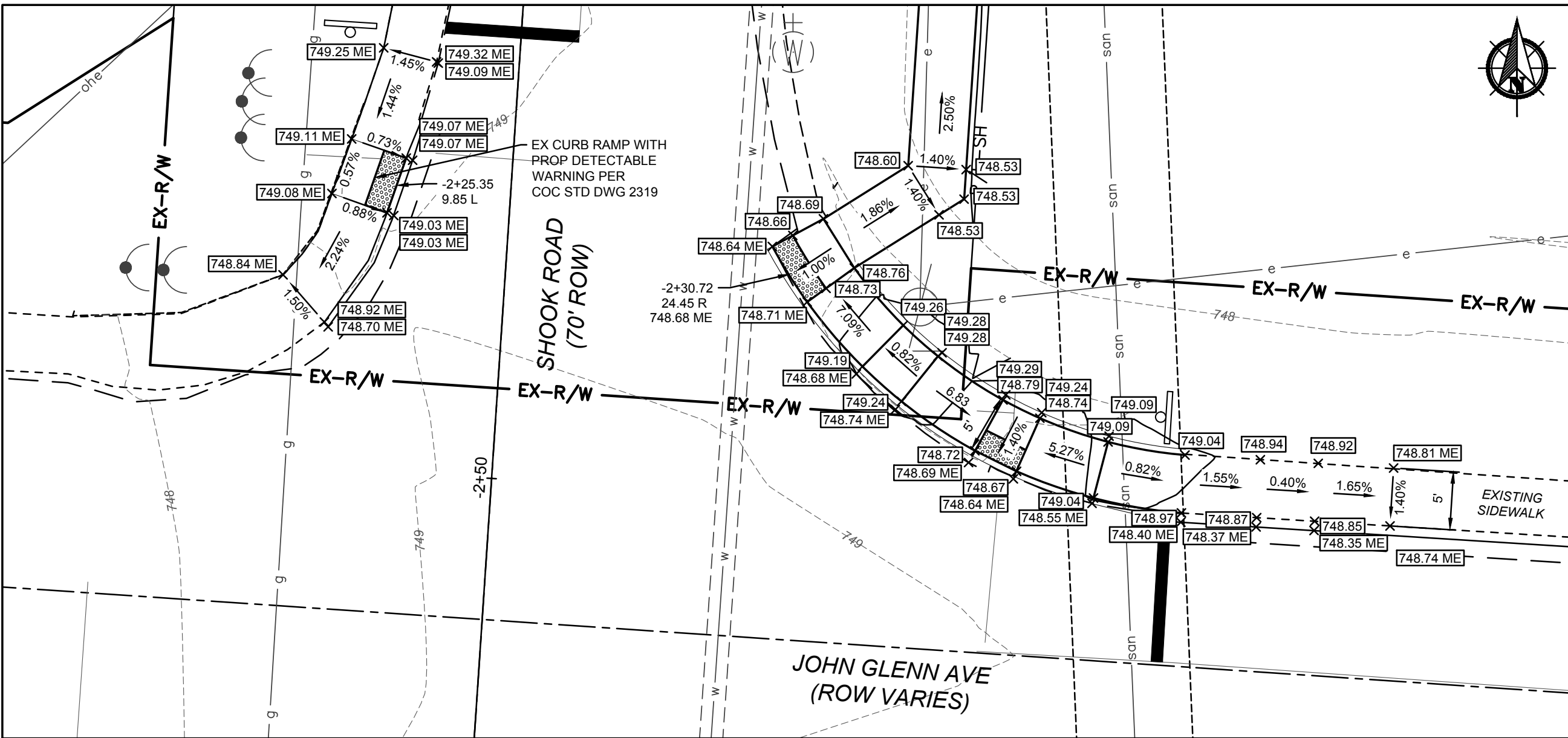
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DETAIL - DRIVE ON SHOOK ROAD @ STATION 1+47.50
1" = 10'



DETAIL - DRIVE ON SHOOK ROAD @ STATION 3+58.61
1" = 10'

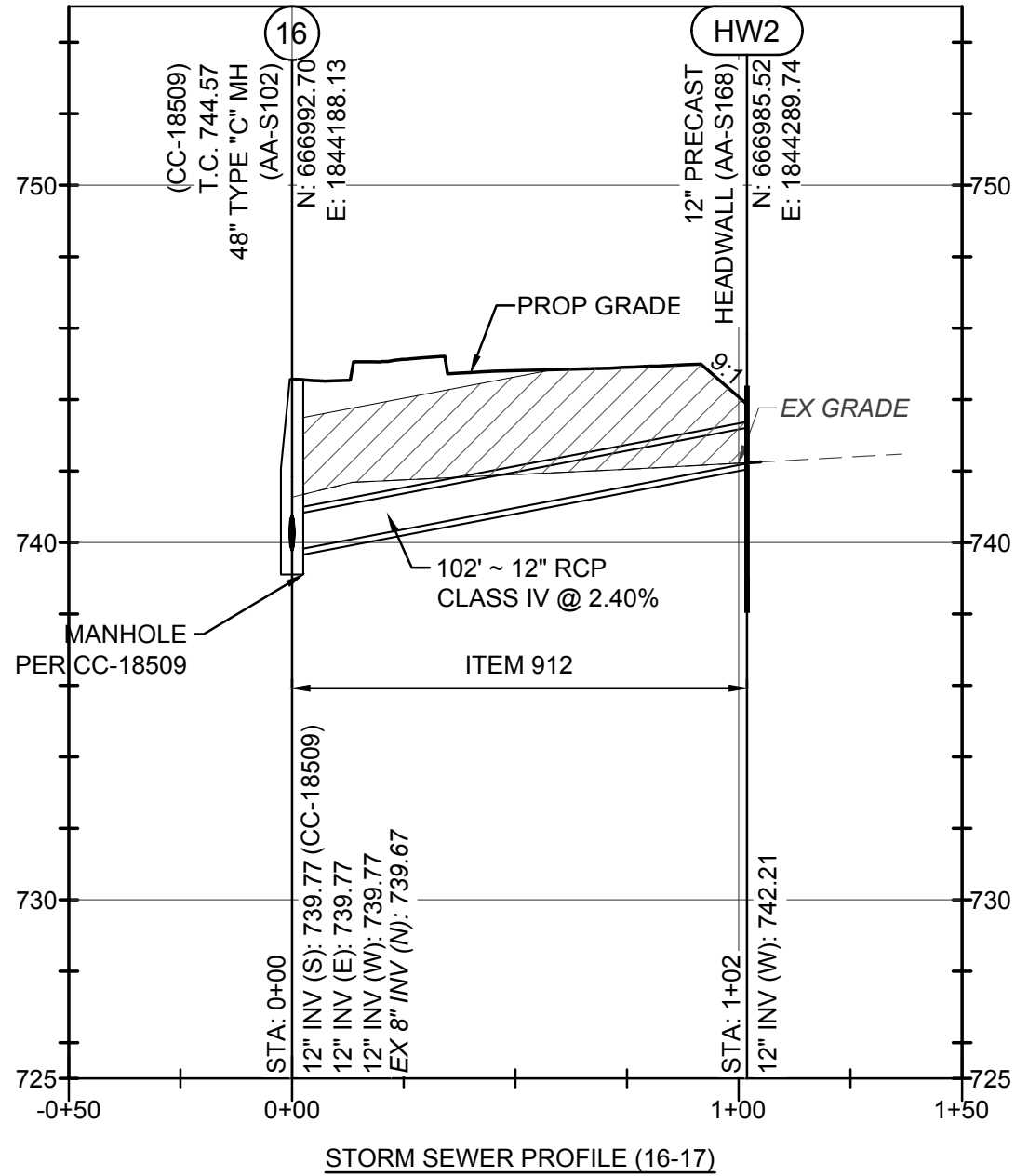
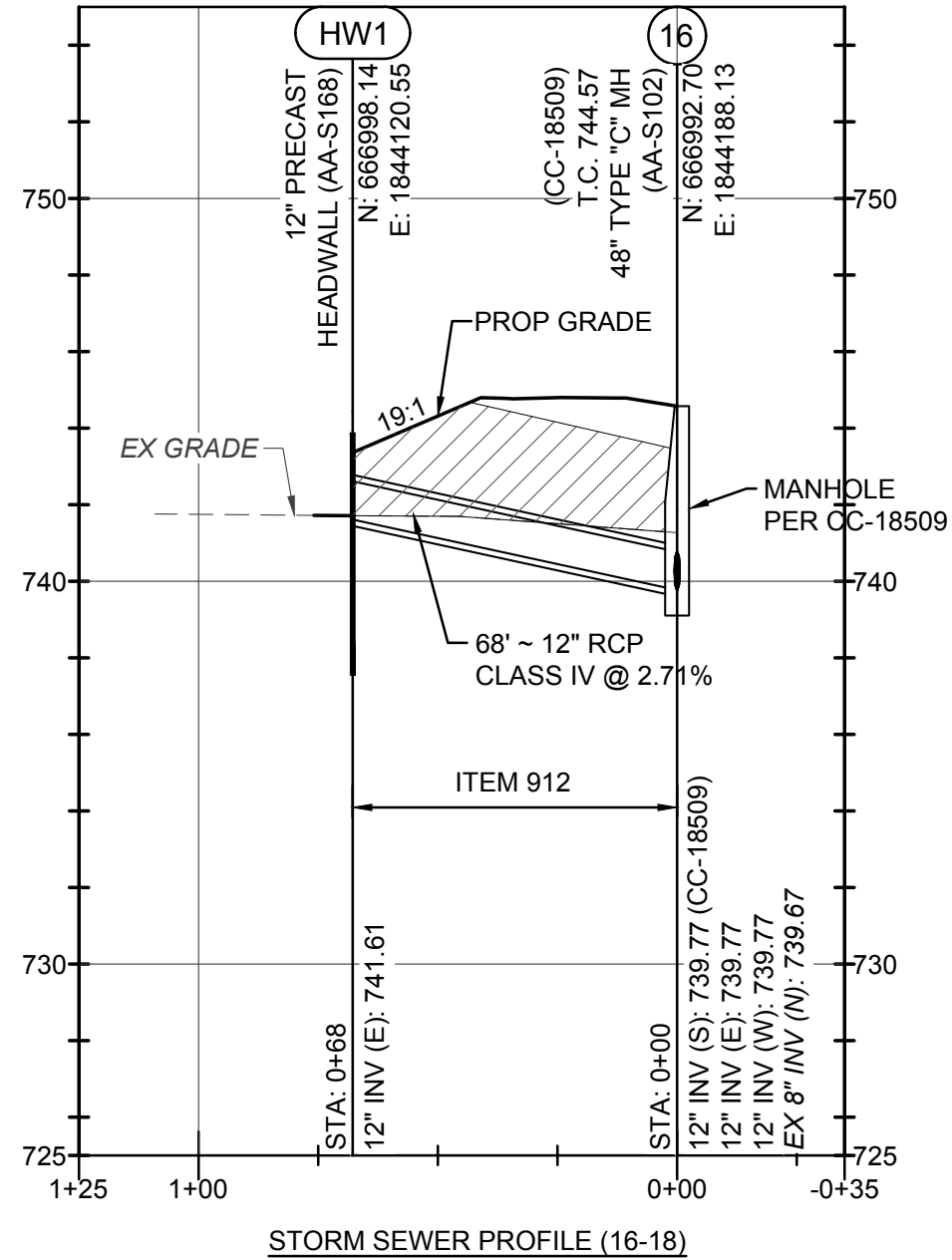


DETAIL - SHOOK ROAD AND JOHN GLENN AVE INTERSECTION CURB RAMP
1" = 10'

CALCULATED	MHS	CHECKED	BJM
HORIZONTAL SCALE IN FEET			
0 10 20			

DRIVE ENTRANCE & CURB RAMP DETAILS

SHOOK ROAD
FROM LONDON GROVEPORT RD. TO JOHN GLENN AVE.
S.R. 317 (LONDON-GROVEPORT RD)
FROM SHOOK RD. TO A POINT APPROXIMATELY 720' EAST OF SHOOK RD.



STORM SEWER NOTES:

PROFILE DATUM NAVD '88

MAINTAIN A MINIMUM OF 18" VERTICAL AND 10' HORIZONTAL CLEARANCE FROM WATER MAINS.

ALL BACKFILL SHALL BE COMPACTED BACKFILL PER ITEM 912, UNLESS OTHERWISE INDICATED.

ALL FILLS ARE TO BE PLACED A MINIMUM OF 2.5' ABOVE THE PROPOSED STORM SEWER PER ITEM 203 PRIOR TO THE START OF STORM SEWER CONSTRUCTION.

DENOTED THUS:



SEE TITLE SHEET FOR HORIZONTAL REFERENCE DATUM FOR STATE PLANE COORDINATES IN THE PROFILE

SIGNING AND PAVEMENT MARKING PLAN

SHOOK ROAD
FROM LONDON GROVEPORT RD. TO JOHN GLENN AVE.
S.R. 317 (LONDON-GROVEPORT RD)
FROM SHOOK RD. TO A POINT APPROXIMATELY 720' EAST OF SHOOK RD.