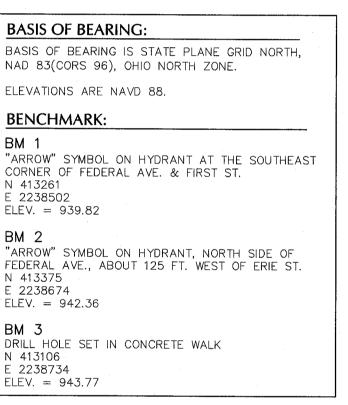
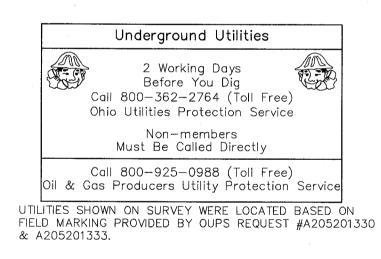
WALGREENS CIVIL CONSTRUCTION DOCUMENTS FIRST STREET NW AND LINCOLN WAY STARK COUNTY CITY OF MASSILLON, OHIO

6-28-13 JOB # 2011095.01





LISTED BELOW ARE ALL KNOWN UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

AQUA OHIO WATER

870 THIRD ST. NW

330-664-2443

MASSILLON, OH 44647

AT&T OHIO
50 W. BOWERY ST, 6TH FLOOR
AKRON, OH 44308
THOMAS HOBART
330-384-2078
TH3493@ATT.COM

THOMAS HOBART DONALD SNYDER

330-384-2078 330-832-7600 EXT. 205

TH3493@ATT.COM DLSNYDER@AQUAAMERICA.COM

CITY OF MASSILLON DOMINION EAST OHIO GAS

SANITARY SEWER 320 SPRINGSIDE ROAD

151 LINCOLN WAY EAST AKRON, OH 44333

NORTHEAST OHIO NATURAL GAS CORP. 9081 S.R. 250 STRASBURG, OH 44680-9766 (330) 878-5589

MASSILLON, OH 44646

(330). 830-1722

DEBRA21@DOM.COM

MASSILLON CABLE TV

814 CABLE COURT NW

P.O. BOX 1000

MASSILLON, OH 44648-1000

JEFF CAMPBELL

(330) 833-0202

JEFFC@MASSILLONCABLETV.COM

GEOTECHNICAL ENGINEER:

TERRACON CONSULTANTS, INC.

1414 E. SCHAAF ROAD

BROOKLYN HEIGHTS, OH 44131

PHONE; 216-459-8378

FAX: 216-459-8954

TERRACON PROJECT NO: 40197.001

2600 ERIE ST, SOUTH
MASSILLON, OH 44646
KEVIN MCCLUSKY
(330) 830-7083
MCCLUSKYK@FIRSTENERGYCORP.COM

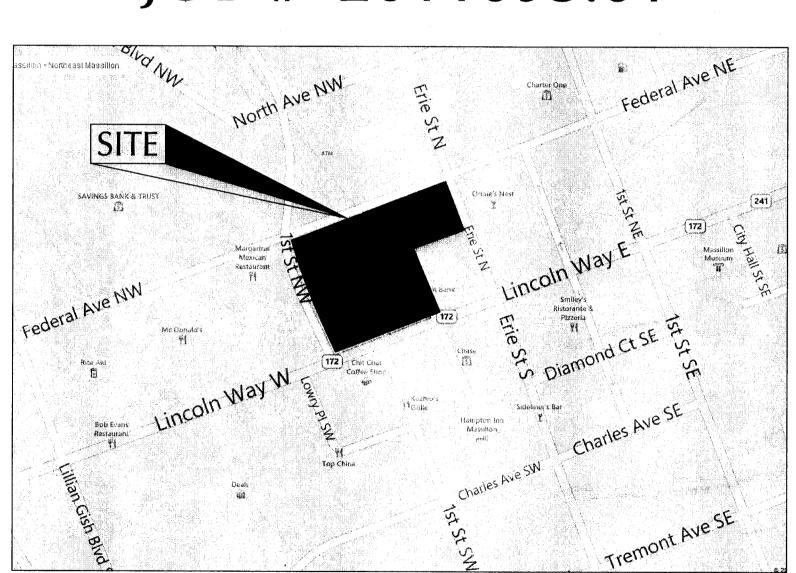
OHIO EDISON STARK DIVISION

GPD GROUP®
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.

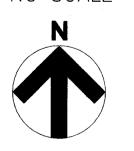
520 South Main Street, Suite 2531
Akron, oh 44311
330.572.2100 Fax: 330.572.2101

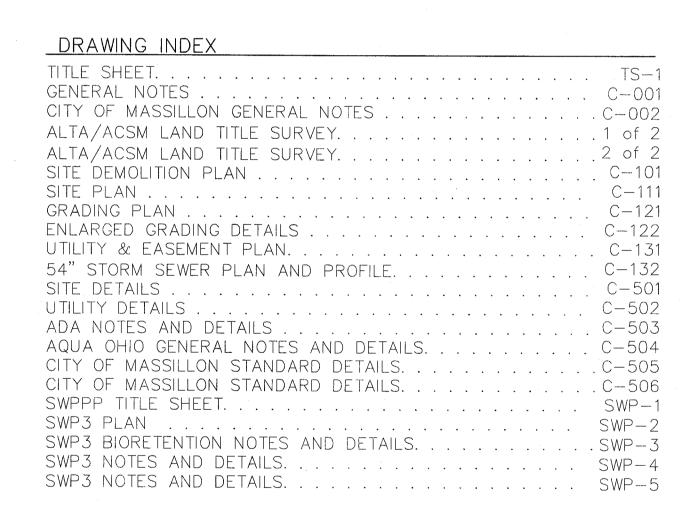
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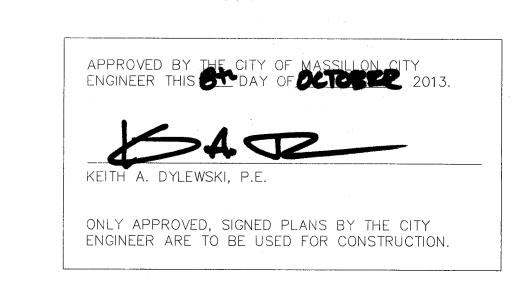




LOCATION MAP
NO SCALE

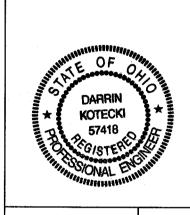












PLOT:
2012 WALGREE
N BY:
WALG

TS-1

OBTAIN APPROVED BORROW SOIL MATERIALS OFF-SITE WHEN SUFFICIENT SATISFACTORY SOIL

MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST

10. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTING AND SEALING HAVE BEEN

9.A. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR OPERATING FACILITIES. EXCEPT.

1. UTILITY REQUIREMENTS: LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF INDICATED UTILITY

11.A. ARRANGE TO SHUT OFF AND CAP UTILITIES WITH UTILITY COMPANIES AND FOLLOW THEIR

12.A. ERECT TEMPORARY PROTECTION, BARRICADES AS PER LOCAL GOVERNING AUTHORITIES.

4. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT

6. DAMAGES: PROMPTLY REPAIR DAMAGES TO ADJACENT FACILITIES CAUSED BY DEMOLITION

DISTURB THE MATERIALS. IMMEDIATELY NOTIFY THE ENGINEER AND THE OWNER.

5. CLEAN ADJACENT BUILDINGS AND IMPROVEMENT OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION

7. GENERAL: PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS

9. ASBESTOS: IT IS NOT EXPECTED THAT ASBESTOS WILL BE ENCOUNTERED IN THE COURSE OF THIS

20. SURVEY THE CONDITION OF THE BUILDING TO DETERMINE WHETHER REMOVING ANY ELEMENT MIGHT

I. BUILDING PAD DEMOLITION: DEMOLISH BUILDING PAD COMPLETELY AND REMOVE FROM THE SITE. USE

METHODS REQUIRED TO COMPLETE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS AND AS

22. BELOW-GRADE DEMOLITION: DEMOLISH FOUNDATION WALLS AND OTHER BELOW-GRADE DEMOLITION,

22.A. COMPLETELY REMOVE BELOW-GRADE DEMOLITION, INCLUDING FOUNDATION WALLS FOOTINGS, AND

23. FILLING BELOW-GRADE AREAS: COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM

24. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH

24.A. DO NOT CLOSE OR OBSTRUCT STREETS. WALKS. OR OTHER ADJACENT OCCUPIED OR USED

ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY

25. CONTRACTOR TO SAWCUT EXISTING PAVEMENT TO REMAIN PRIOR TO CURB, GUTTER, PAVEMENT, ETC.

ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.

DEMOLITION OF BUILDINGS AND PAVEMENTS WITH SOIL MATERIALS ACCORDING TO REQUIREMENTS PER

SOILS REPORT. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO FILLING ANY AREAS. CONTRACTOR

FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE

RESULT IN A STRUCTURAL DEFICIENCY OR UNPLANNED COLLAPSE OF ANY PORTION OF THE

CONTRACT. IF ANY MATERIALS SUSPECTED OF CONTAINING ASBESTOS ARE ENCOUNTERED. DO NOT

OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF DEMOLITION.

12.B. PROTECT EXISTING SITE IMPROVEMENTS AND APPURTENANCES TO REMAIN.

2. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT

BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION

WHEN AUTHORIZED IN WRITING BY ENGINEER AND AUTHORITIES HAVING JURISDICTION. PROVIDE

TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO OWNER

MATERIALS ARE NOT AVAILABLE ON-SITE.

DAMAGE DURING DEMOLITION OPERATIONS

AND TO GOVERNING AUTHORITIES.

RESPECTIVE UTILITY KILL AND CAP POLICIES.

13. EXPLOSIVES: USE OF EXPLOSIVES WILL NOT BE PERMITTED.

COMPLETED AND VERIFIED IN WRITING.

OPERATIONS AT THE CONTRACTORS COST

18. BURNING: DO NOT BURN DEMOLISHED MATERIALS.

STRUCTURE OR ADJACENT STRUCTURES DURING DEMOLITION.

21.A. DISPOSE OF DEMOLISHED ITEMS AND MATERIALS PROMPTLY. 21.B. DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS

21.C. BREAK UP AND REMOVE CONCRETE SLABS ON GRADE.

SHALL CONTACT ENGINEER TO OBSERVE FILL PROCEDURES.

BELOW GRADE CONCRETE SLABS.

GOVERNING REGULATIONS.

SERVICES SERVING THE SITE.

SURFACES AND AREAS.

TO ACCUMULATE ON-SITE.

FOLLOWS:

REMOVAL.

PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY. THE SOILS REPORT PREPARED BY TERRACON CONSULTANTS, INC. DATED MARCH XX, 2013 AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION/PROJECT MANAGER OF ANY DISCREPANCY BETWEEN SOILS REPORT AND PLANS, ETC.

GENERAL PLAN NOTES

UPON RECEIPT OF POINT COORDINATE DATA, THE CONTRACTOR SHALL RUN AN INDEPENDENT VERTICAL CONTROL TRAVERSE TO CHECK BENCHMARKS AND A HORIZONTAL CONTROL TRAVERSE THROUGH GIVEN POINTS TO CONFIRM GEOMETRIC DATA AND SUBMIT TO THE ENGINEER PRIOR TO ANY CONSTRUCTION.

THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THE PLAN ARE BASED ON FIELD SURVEYS AND CITY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION, NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE.

ALL DIMENSIONS, GRADES, AND UTILITY LOCATIONS SHOWN ON THESE PLANS WERE BASED ON THE ALTA SURVEY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY CONSTRUCTION/PROJECT MANAGER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO INFORMATION SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.

ALL WORK WITHIN THE RIGHTS OF WAY SHALL BE IN ACCORDANCE WITH THE GOVERNING JURISDICTION AND SPECIFICATIONS.

CONTRACTOR SHALL COORDINATE ANY MAINTENANCE OF TRAFFIC WITH THE OWNER'S REPRESENTATIVE AND THE LOCAL JURISDICTION PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL AT ALL TIMES INSURE THAT SWPP MEASURES PROTECTING EXISTING DRAINAGE FACILITIES BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY PHASE OF THE SITE CONSTRUCTION OR LAND ALTERATION. (SEE SWP SHEETS).

9. UPON COMPLETION OF PROJECT, CONTRACTOR SHALL CLEAN THE PAVED AREAS PRIOR TO REMOVAL OF TEMPORARY SEDIMENT CONTROLS. AS DIRECTED BY THE CITY AND/OR CONSTRUCTION/PROJECT MANAGER. IF POWER WASHING IS USED, NO SEDIMENT LADEN WATER SHALL BE WASHED INTO THE STORM SYSTEM. ALL SEDIMENT LADEN MATERIAL ON PAVEMENT OR WITHIN THE STORM SYSTEM SHALL BE COLLECTED AND REMOVED FROM THE SITE AT CONTRACTOR'S EXPENSE.

O. THESE PROJECT CONSTRUCTION DOCUMENTS SHALL NOT CONSTITUTE A CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR THE ENGINEER AND THE SUBCONTRACTOR.

. THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION OR SAFETY MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES UTILIZED IN CONSTRUCTION BY THE CONTRACTOR OR SUBCONTRACTORS.

SITE PLAN NOTES

ALL DIMENSIONS AND RADII ARE GIVEN TO FACE OF CURB UNLESS OTHERWISE NOTED.

ALL EXTERIOR SITE SPECIFIC PORTLAND CONCRETE CEMENT SHALL MEET THE LATEST EDITION OF THE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR CURING AND INSTALLATION. THE MINIMUM CONCRETE ALLOWED IS 4000 P.S.I. AT 28 DAY, WITH AIR ENTRAINMENT MEETING THE DOT REQUIREMENTS. (CONTRACTOR SHALL REFER TO DETAILS WITHIN THIS DRAWING SET FOR ANY VARIATIONS TO THIS

ALL EXTERIOR CURB SHALL HAVE EXPANSION JOINTS AT 100'-0" O.C, AND CONTROL JOINTS AT 10'-0" O.C. (UNLESS OTHERWISE SPECIFIED ON THE DETAIL SHEETS) ALL EXTERIOR WALK SHALL HAVE EXPANSION JOINTS AT 20'-0" O.C. AND CONTROL JOINTS @ 5'-0" MAX. O.C. (UNLESS OTHERWISE SPECIFIED ON THE DETAIL

. ALL CONCRETE SHALL HAVE A MEDIUM TRANSVERSE FINISH.

SPECIFICATION).

. CONTRACTOR SHALL PROVIDE FROST SLABS AT ALL EXTERIOR DOORWAYS PER DETAIL 14, SHEET C-501. SEE SITE PLAN (C-111) FOR LOCATIONS AND DIMENSIONS.

GRADING PLAN NOTES

BEFORE STARTING GRADING OPERATIONS, SEE STORMWATER POLLUTION PREVENTION PLAN, NOTES, AND DETAIL SHEETS, SWP1-5.

BEFORE STARTING GRADING OPERATIONS, SEE LANDSCAPE PLANS AND SOILS REPORT FOR TREATMENT OF

PRIOR TO SITE CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL INSTALL ALL SWPP MEASURES TO PROTECT EXISTING DRAINAGE FACILITIES. CONTRACTOR SHALL PREVENT SILTATION FROM LEAVING THE SITE AT ALL TIMES.

STRIP BUILDING AND PAVEMENT AREAS OF ALL ORGANIC TOPSOILS. STOCKPILE SUITABLE TOPSOILS FOR RESPREADING ONTO LANDSCAPE AREAS. ALL EXCESS EXCAVATED MATERIALS SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE. SEE GEOTECHNICAL REPORT FOR STRIPPING AND TOPSOIL REQUIREMENTS

SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT REFERENCED IN THIS PLAN SET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL SOFT. YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS REFERENCED IN THE SOILS REPORT. UNLESS OTHERWISE SPECIFIED IN THE PLANS OR SPECIFICATIONS, THE SITE GRADING, EXCAVATION, AND EMBANKMENT SHALL BE IN ACCORDANCE WITH THE STATE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS.

ALL GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN

AT A MINIMUM ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 100% OF STANDARD PROCTOR MAXIMUM DRY DENSITY PER A.S.T.M. TEST D-698 BENEATH FOUNDATIONS AND WITHIN 12" OF SUBGRADE, 98% FLSFWHERE, MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 3% ABOVE NOR 2% BELOW OPTIMUM. THE CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND RETAIN A QUALIFIED SOILS ENGINEER REGISTERED WITHIN THE STATE TO ENSURE COMPLIANCE WITH THE GEOTECHNICAL REPORT, MAKE GEOTECHNICAL RECOMMENDATIONS BASED ON FIELD CONDITIONS, AND ENSURE THAT ALL SHORING AND DEWATERING MEANS AND METHODS WILL NOT COMPROMISE THE STABILITY OF EXISTING OR PROPOSED FOOTINGS/FOUNDATIONS. THE REQUIREMENT TO HIRE AN INDEPENDENT GEOTECHNICAL ENGINEER <u>MAY</u> BE'WAIVED IF AN OWNER HIRED GEOTECHNICAL ENGINEER IS ONSITE. THE OWNER RESERVES THE RIGHT TO REQUEST COMPACTION REPORTS PREPARED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT. NOTIFY PROJECT ENGINEER IF ANY UNSUITABLE SOILS ARE FOUND.

EMBANKMENT SHALL BE COMPACTED AND PLACED IN LAYERS, AS REFERENCED BY THE GEOTECHNICAL ENGINEER, PRIOR TO INSTALLATION OF STORM SEWER.

. THE CONTRACTOR WILL, UPON BECOMING AWARE OF SUBSURFACE OR LATENT PHYSICAL CONDITIONS DIFFERING FROM THOSE DISCLOSED BY THE ORIGINAL SOIL EXPLORATION WORK, PROMPTLY NOTIFY THE OWNER VERBALLY TO PERMIT VERIFICATION OF THE CONDITIONS AND IN WRITING, AS TO THE NATURE OF THE DIFFERING CONDITIONS. NO CLAIM BY THE CONTRACTOR FOR ANY CONDITIONS DIFFERING FROM THOSE ANTICIPATED IN THE PLAN AND SPECIFICATIONS AND DISCLOSED BY THE SOIL STUDIES WILL BE ALLOWED UNLESS THE CONTRACTOR HAS SO NOTIFIED THE OWNER, VERBALLY AND IN WRITING AS REQUIRED ABOVE, OF SUCH DIFFERING CONDITIONS.

). PRIOR TO THE CONSTRUCTION OF THE STORM SEWER AND GRADING OPERATIONS, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTH OF ALL UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF THE EXISTING UTILITIES CONFLICT WITH THE PROPOSED CONSTRUCTION.

. FOLLOWING GRADING OF SUBSOIL TO SUBGRADE ELEVATIONS, THE CONTRACTOR SHALL PLACE TOPSOIL TO A 4" DEPTH IN ALL DISTURBED AREAS WHICH ARE NOT TO BE PAVED. SMOOTHLY FINISH GRADE TO MEET SURROUNDING LAWN AREAS AND ENSURE POSITIVE DRAINAGE. STOCKPILED TOPSOIL SHALL BE SCREENED PRIOR TO RESPREADING. TOPSOIL SHALL BE FREE OF SUBSOIL, DEBRIS, BRUSH AND STONES LARGER THAN 1" IN ANY DIMENSION. ROCK HOUNDING IN PLACE WILL NOT BE PERMITTED. ALL EXCESS TOPSOIL SHALL BE LEGALLY DISPOSED OF OFF SITE.

2. FLEVATIONS GIVEN ARE AT BOTTOM FACE OF CURB AND/OR FINISHED PAVEMENT GRADE UNLESS OTHERWISE. SPECIFIED ON GRADING PLAN. ALL PAVEMENT SHALL BE LAID ON A STRAIGHT, EVEN. AND UNIFORM GRADE WITH A MINIMUM OF 1% SLOPE TOWARD THE COLLECTION POINTS UNLESS OTHERWISE SPECIFIED ON THE GRADING PLAN. DO NOT ALLOW NEGATIVE GRADES OR PONDING OF WATER.

13. SLOPE BUILDING SIDEWALK AWAY FROM THE BUILDING AT A MAXIMUM OF 1.5% (UNLESS OTHERWISE INDICATED ON SHEET C-121).

14. CONTRACTOR SHALL PROVIDE BUTT END JOINT TO MEET EXISTING PAVEMENT IN ELEVATION AT DRIVE RETURNS AND ENSURE POSITIVE DRAINAGE.

GENERAL UTILITY NOTES

CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES IMMEDIATELY AFTER BID IS AWARDED AND ENSURE THE UTILITY COMPANIES HAVE THE ESSENTIALS REQUIRED FOR COMPLETE SERVICE INSTALLATION. CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER AND ENGINEER OF ANY TIME FRAMES ESTABLISHED BY UTILITY COMPANIES WHICH WILL NOT MEET OPENING DATE.

UTILITY NOTES

CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, INVERT ELEVATION, AND CONDITION OF EXISTING UTILITIES WHICH ARE INTENDED TO BE UTILIZED AS A CONNECTION POINT FOR ALL PROPOSED UTILITIES (SEE SHEET C-131), PRIOR TO ANY CONSTRUCTION. CONTRACTOR TO ENSURE EXISTING UTILITIES ARE IN GOOD CONDITION AND FREE FLOWING (IF APPLICABLE). IF ELEVATIONS, SIZE, OR LOCATION DIFFER FROM WHAT IS SHOWN ON SHEET C-131, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.

WHERE PLANS PROVIDE FOR PROPOSED WORK TO BE CONNECTED TO, OR CROSS OVER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING THE PROPOSED WORK. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE RESULTS IN A CHANGE IN THE PLAN THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED WORK WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY. PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT

STORM SEWER NOTES

ALL STORM SEWER PIPE 12" OR GREATER IN DIAMETER SHALL BE RCP, CL IV, PER ASTM C76, AND JOINTS PER ASTM C-443 OR PVC, SDR 35, PER ASTM D 3034, AND JOINTS PER ASTM D 3212. 54" RELOCATED STORM SEWER MAIN SHALL BE RCP. STORM SEWER LESS THAN 12" IN DIAMETER SHALL BE PVC, SDR 35, PER ASTM D 3034, AND JOINTS PER ASTM D 3212.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRENCHING, BACKFILLING AND PIPE INSTALLATION, PIPE MATERIAL AND TAP CONNECTION. COORDINATE ALL WORK WITH THE CITY OF MASSILLON ENGINEERING DEPARTMENT @ 330-830-1722.

ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.

ALL STORM SEWER MANHOLES AND CATCH BASINS IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING FRAME & GRATE. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER."

ALL DRAINAGE STRUCTURES AT PAVEMENT SUMPS SHALL HAVE FINGER DRAINS PER DETAIL 2, SHEET

SANITARY SEWER NOTES

SANITARY SEWER LATERAL INVERT AT BUILDING SHALL BE A MINIMUM OF 5' BELOW FINISH FLOOR.

. CLEAN—OUTS TO BE INSTALLED AT ALL PIPE BENDS AND ANGLES, UNLESS A MANHOLE IS INDICATED.

THE CONTRACTOR SHALL HIRE A LOCAL PLUMBER LICENSED WITH THE LOCAL SANITARY JURISDICTION TO MAKE ALL CONNECTIONS FROM THE BUILDING TO THE EXISTING SANITARY MANHOLE. CONTRACTOR SHALL SECURE A SANITARY SEWER CONNECTION PERMIT PRIOR TO ANY CONSTRUCTION. THE CONTRACTORS PRICE FOR SANITARY SEWER INSTALLATION SHALL INCLUDE ALL FEES AND APPURTENANCES REQUIRED BY THE LOCAL SANITARY JURISDICTION TO PROVIDE A COMPLETE WORKING SERVICE. COORDINATE ALL WORK WITH THE CITY OF MASSILLON ENGINEERING DEPARTMENT @ 330-830-1722

ALL SANITARY PIPE MATERIAL SHALL BE 6" PVC, SDR 35 CONFORMING TO ASTM D 3034, WITH JOINTS PER ASTM 3212.

WATER NOTES

ALL WATER SERVICE LINES 2" AND SMALLER SHALL BE TYPE "K" COPPER (UNLESS OTHERWISE NOTED ON PLAN). ALL WATER SERVICE LINES 3" AND LARGER SHALL BE DUCTILE IRON PIPE, ANSI A21.51, THICKNESS CLASS 52, WITH PUSH-ON JOINTS, CEMENT LINED ANSI A21.4 (UNLESS OTHERWISE NOTED ON PLAN). FITTINGS TO BE FULL BODY-ONLY. DIAMETER SHALL BE AS NOTED ON THESE PLANS (SHEET C-131) AND SHALL BE INSTALLED WITH A MINIMUM COVER OF 54" OR BELOW FROST LINE, WHICHEVER IS

• FURNISH AND INSTALL WATER METER INSIDE BUILDING.

• COORDINATE ALL WORK WITH AQUA OHIO, DON SNYDER @ 330-832-7600 EXT. 205.

CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR:

• FURNISH AND INSTALL SERVICE LINE(S) FROM THE MAIN TO THE BUILDING. ALL TRENCHING, BACKFILLING, AND RESTORATION.

<u>ELECTRICAL NOTES</u>

. SEE ELECTRICAL DRAWINGS FOR CONDUIT ROUTING AND SIZES.

CONSTRUCTION AND MATERIALS PROVIDED BY THE ELECTRIC COMPANY: • FURNISH AND INSTALL PRIMARY WIRE FROM THE TRANSFORMER TO THE SERVICE CONNECTION POINT.

MAKE APPROPRIATE PRIMARY AND SECONDARY CONNECTIONS AT TRANSFORMER.

 FURNISH AND INSTALL METER • COORDINATE ALL WORK WITH FIRST ENERGY, KEVIN MCCLUSKY @ 330-830-7083

CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR:

• PROVIDE PRECAST CONCRETE VAULT FOR TRANSFORMER IN ACCORDANCE WITH FIRST ENERGY

REQUIREMENTS AND DETAILS. FURNISH AND INSTALL CONDUIT, INCLUDING ALL TRENCHING AND BACKFILLING FROM THE TRANSFORMER DITHE BUILDING, AND FROM THE TRANSFORMER TO THE PROPOSED CONNECTION POINT.

 FURNISH AND INSTALL SECONDARY WIRE FROM THE BUILDING TO THE TRANSFORMER. FURNISH AND INSTALL METER BASE AND CT CABINET INCLUDE ALL FEES REQUIRED BY ELECTRIC COMPANY TO PROVIDE A COMPLETE WORKING SERVICE.

TELEPHONE NOTES

CONSTRUCTION AND MATERIALS PROVIDED BY THE TELEPHONE COMPANY

 COORDINATE ALL WORK WITH AT&T, TOM HOBART @ 330-384-2078 PROVIDE AND INSTALL WIRING FROM THE CONNECTION POINT TO THE BUILDING.

CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR: • FURNISH AND INSTALL 4" SCHEDULE 40 PVC CONDUIT WITH PULLWIRE FROM THE BUILDING TO THE PROPOSED CONNECTION POINT.

 ALL TRENCHING, BACKFILLING, AND RESTORATION. • INCLUDE ALL FEES REQUIRED BY TELEPHONE COMPANY TO PROVIDE A COMPLETE WORKING SERVICE.

SEE ELECTRICAL DRAWINGS FOR CONDUIT ROUTING AND SIZES.

NATURAL GAS NOTES

CONSTRUCTION AND MATERIALS PROVIDED BY THE GAS COMPANY:

FURNISH AND INSTALL SERVICE FROM TAP TO METER.

 ALL TRENCHING FURNISH AND INSTALL METER

• COORDINATE ALL WORK WITH DOMINION EAST OHIO, DEBRA METTLE @ (330) 664-2443

CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR: • FURNISH AND INSTALL SERVICE FROM METER TO BUILDING AND THROUGHOUT THE BUILDING. ALL TRENCH BACKFILL AND RESTORATION.

 CONTRACTOR SHALL INCLUDE ALL FEES REQUIRED BY THE GAS COMPANY TO PROVIDE A COMPLETE. WORKING SERVICE.

CABLE NOTES

INSTALL 4" CABLE TV SERVICE CONDUIT PER CITY OF MASSILLON, STATE OR NEC CODE, WHICHEVER IS MORE STRINGENT (FOR FUTURE USE). PROVIDE END CAP AND NOTE LOCATION ON AS-BUILT DRAWINGS. CONTRACTOR SHALL COORDINATE WITH LOCAL CABLE COMPANY TO DETERMINE LOCATION OF EXISTING OR FUTURE CABLE SERVICE, AND EXTEND CONDUIT TO POTENTIAL SERVICE CONNECTION AND TERMINATE AT RIGHT-OF-WAY.

GENERAL LEGENDS

CONSTRUCTION KEYNOTE PROPOSED PARKING SPACE NUMBER PROPOSED EDGE OF PAVEMENT

PROPOSED LEGEND

PROPOSED CURB PROPOSED WHEEL STOP PROPOSED TRAFFIC SIGN

PROPOSED PAINTED ADA SYMBOL PROPOSED TRANSVERSE STRIPING

PROPOSED CROSSWALK STRIPING

PROPOSED CONCRETE

PROPOSED STANDARD ASPHALT PAVEMENT

PROPOSED HEAVY DUTY ASPHALT PAVEMENT

EXISTING LEGEND

EXISTING ASPHALT TO BE REMOVED EXISTING CONCRETE TO BE REMOVED

EXISTING BUILDING/STRUCTURE TO BE REMOVED

EXISTING BRICK PAVERS TO BE REMOVED

DENOTES LIMITS OF SAWCUT DEMOLITION KEYNOTE

----- P/L -----PROPERTY LINE ---- C/L ----CENTER LINE RIGHT-OF-WAY LINE ----- R/W -----EXISTING YARD DRAIN EXISTING STORM MANHOLE

EXISTING CATCH BASIN

EXISTING CURB INLET EXISTING CLEAN OUT

EXISTING SANITARY MANHOLE EXISTING FIRE HYDRANT EXISTING WATER VALVE

EXISTING WATER METER

EXISTING ELECTRIC BOX EXISTING ELECTRIC METER EXISTING ELECTRIC MANHOLE

EXISTING ELECTRIC PULL BOX EXISTING LIGHT POLE

EXISTING GUY WIRE ---- OH -----EXISTING OVERHEAD UTILITIES EXISTING TRAFFIC CONTROLLER

EXISTING UTILITY POLE

EXISTING TRAFFIC PULL BOX

EXISTING SIGNAL POLE EXISTING TELEPHONE BOX

EXISTING TELEPHONE PULL BOX

EXISTING GAS VALVE EXISTING GAS METER

EXISTING GAS MARKER

-----XX" ST ----- EXISTING STORM SEWER -----XX" SAN ----- EXISTING SANITARY SEWER -----XX" W ------ EXISTING WATER SERVICE

EXISTING UNDERGROUND ELECTRIC EXISTING UNDERGROUND TELEPHONE

EXISTING GAS SERVICE EXISTING BUILDING/STRUCTURE

EXISTING CURB

EXISTING CURB & GUTTER EXISTING BOLLARD EXISTING SIGN

EXISTING FLAGPOLE EXISTING MAILBOX EXISTING BUSH

EXISTING DECIDUOUS TREE

EXISTING PINE TREE

EXISTING CONTOUR _ _ _ ___ EASEMENT LIMITS

BENCHMARK

BENCHMARK LOCATION

"ARROW" SYMBOL ON HYDRANT AT THE SOUTHEAST CORNER OF FEDERAL AVE. & FIRST ST.

"ARROW" SYMBOL ON HYDRANT, NORTH SIDE OF FEDERAL AVE., ABOUT 125 FT. WEST OF ERIE ST. E 2238674 ELEV. = 942.36

Underground Utilities

2 Working Days

Before You Dig

Call 800-362-2764 (Toll Free)

Ohio Utilities Protection Service

Non-members

Must Be Called Directly

Call 800-925-0988 (Toll Free)

Oil & Gas Producers Utility Protection Servic

UTILITIES SHOWN ON SURVEY WERE LOCATED BASED ON

BASIS OF BEARING IS STATE PLANE GRID NORTH.

NAD 83(CORS 96), OHIO NORTH ZONE.

FIELD MARKING PROVIDED BY OUPS REQUEST #A205201330

N 413106

& A205201333.

BASIS OF BEARING:

BENCHMARK:

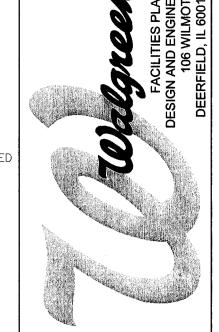
N 413261

E 2238502

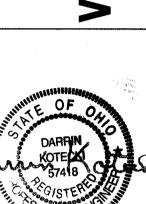
ELEV. = 939.82

ELEVATIONS ARE NAVD 88.

DRILL HOLE SET IN CONCRETE WALK E 2238734 ELEV. = 943.77

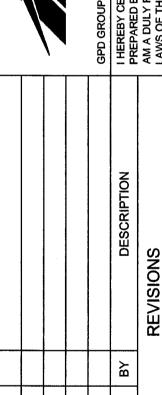






6-24-13





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UTILITIES

LISTED BELOW ARE ALL KNOWN UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

50 W.BOWERY, 6TH FLOOR AKRON, OH 44308 800-384-8057

AQUA WATER P.O. BOX 584 MASSILLON, OH 44648 (330) 833-4156

STARK DIVISION 2600 S. ERIE ST. MASSILLON, OH 44545 (330) 833-3141

OHIO EDISON

CITY OF MASSILLON AT&T COMMUNICATIONS SANITARY SEWER 2535 E. 40TH AVE. 151 LINCOLN WAY EAST DENVER, CO 80205-3601 (800) 852-3786 MASSILLON, OH 44646 (330) 830-1722

DOMINION EAST OHIO GAS COMPANY 4725 SOUTHWAY ST. S.W. CANTON, OH 44706 (330) 478-3142

NORTHEAST OHIO NATURAL GREAT LAKES MASSILLON CABLE TV GAS CORP. 104 6TH ST. S.W. P.O. BOX 814 9081 S.R. 250 CANTON, OH 44702 MASSILLON, OH 44648 STRASBURG, OH 44680-9766 (330) 456-2454 (330) 833-4134 (330) 878-5589

THE CONTRACTOR SHALL NOTIFY ALL UTILITIES 48 HOURS PRIOR TO WORK.

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE SHOWN AT APPROXIMATE LOCATIONS AND WHERE OBTAINED AS REQUIRED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C. OUPS - 1-800-362-2764

OGUPUPS - 1-800-925-0988

DATUM ELEVATION

ALL BENCHMARKS ARE BASED ON STATE PLANE GRID NORTH, NAD 83(CORS96). OHIO NORTH ZONE. ELEVATIONS ARE NAVD 88.

NOTIFICATION OF SAFETY FORCES AND BUS GARAGES

THE CONTRACTOR SHALL NOTIFY ALL APPLICABLE AGENCIES LISTED BELOW AT LEAST 48 HOURS IN ADVANCE OF ANY STREET CLOSING OR TRAFFIC CHANGE.

MASSILLON SAFETY SERVICE 330-830-1702

MASSILLON FIRE DEPARTMENT 330-833-1053

TUSCARAWAS TOWNSHIP HALL 330-832-4337

JACKSON FIRE DEPARTMENT 330-834-3950

JACKSON TOWNSHIP HALL

PERRY FIRE DEPARTMENT 330-833-3865

330-477-1300

330-832-7416

PERRY POLICE DEPARTMENT

PERRY SCHOOL BUS GARAGE

330-478-5121

330-454-5333

PERRY TOWNSHIP HALL

NORTH LAWRANCE FIRE DEPT. 330-833-2141 330-832-6347

MASSILLON POLICE DEPARTMENT 330-830-1735

MASSILLON SCHOOL BUS GARAGE 330-830-1849

JACKSON POLICE DEPARTMENT 330-4834-360

JACKSON SCHOOL BUS GARAGE 330-830-8042

STARK COUNTY SHERIFF 330-430-3800

TUSCARAWAS SCHOOL BUS GARAGE 330-837-7805

SUBSURFACE CONDITIONS

IT IS THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN INVESTIGATION OF SUBSURFACE CONDITIONS PRIOR TO SUBMITTING BID. PROSPECTIVE BIDDERS ARE TO COORDINATE WITH THE OWNER FOR ACCESS TO THE SITE FOR INSPECTIONS AND EXPLORATORY EXCAVATION. THE BIDDER SHALL CONTACT THE OWNER AT LEAST 72 HOURS IN ADVANCE OF THE DESIRED INSPECT OR EXCAVATION, THE BIDDER SHALL CONTACT O.U.P.S. AND OBTAIN LOCATIONS OF OTHER UTILITIES.

CONSTRUCTION SPECIFICATIONS & STANDARDS

ALL CONSTRUCTION TO BE CITY OF MASSILLON SPECIFICATIONS AND STANDARDS, THE LATEST EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS AND FOLLOW ALL OSHA AND ADA REGULATIONS AND REQUIREMENTS, SEDIMENT EROSION STANDARDS.

MAINTENANCE OF TRAFFIC

THE CONTRACTOR SHALL SUPPLY A MAINTENANCE OF TRAFFIC PLAN TO THE CITY ENGINEER.

MAINTENANCE OF TRAFFIC PLAN MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO ANY CONSTRUCTION.

COMMENCING SAID APPROVED DETOUR SHALL BE FORWARDED TO THE LOCAL NEWSPAPER BY THE CONTRACTOR. MATERIALS AND LABOR SHALL BE INCLUDED IN LUMP SUM BID.

ALL ABOVE SAID WORK SHALL BE PAID FOR UNDER ITEM 614 MAINTAINING TRAFFIC.

CONTRACTOR AVAILABILITY

THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH A 24 HOUR PHONE NUMBER WHERE THE CONTRACTOR SHALL BE AVAILABLE FOR EMERGENCIES.

PRESERVATION OF PRIVATE PROPERTY

THE CONTRACTOR SHALL PERFORM WORK AS TO NOT DISTURB, DAMAGE OR DESTROY ANY TELEPHONE OR POWER POLES, SIGNS, LANDSCAPINGITEMS, ETC.. ANY ITEM DAMAGED OR DESTROYED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE ANY ITEM DISTURBED OR IN CONFLICT WITH THE WORK TO BE PERFORMED SHALL BE REMOVED AND RESET AT THE CONTRACTOR'S EXPENSE. PRIOR ENGINEER APPROVAL IS REQUIRED BEFORE ANY OF THE ABOVE ITEMS ARE PERFORMED.

PRESERVATION OF PROPERTY CORNERS, SURVEY MARKERS AND MONUMENTS

THE CONTRACTOR SHALL PRESERVE ALL CORNERSTONES, IRON PINS, CONCRETE MONUMENTS ANY TYPE OF LAND MONUMENT. HE SHALL HAVE ALL LAND MONUMENTS IN THE PROXIMITY OF THE WORK REFERENCED. HE SHALL REPLACE DESTROYED OR DAMAGED MONUMENTS AND SHALL FURNISH A CERTIFICATION BY AN OHIO REGISTERED SURVEYOR THAT THE MONUMENTS HAVE BEEN RESTORED.

CONDITIONS OF WORK

ALL WORK PERFORMED UNDER THIS CONTRACT SHALL COMPLY WITH THE U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ACT, STATE, COUNTY, AND CITY OF MASSILLON LAWS AND REGULATIONS. ALL WORK, AT ALL TIMES SHALL BE SUBJECT TO OBSERVATION BY THE OWNER AND/OR ENGINEER. ALL WORK SHALL COMPLY WITH THE CONDITIONS OF THE CONTRACT DOCUMENTS AND OHIO EPA, AND STANDARDS OF THE CITY OF MASSILLON ALL ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, AND APPLICABLE CITY, COUNTY, STATE AND FEDERAL CODES.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SAFE AND SATISFACTORY ACCESS TO ALL ABUTTING PROPERTIES TO THE PROJECT SITE. ADJACENT ROADS SHALL BE MAINTAINED AND KEPT CLEAN OF MUD AND OTHER DEBRIS THAT MAY BE CAUSED BY TRAFFIC THE WORK SITE. THE CONTRACTOR SHALL COORDINATE AND PROVIDE FOR ALL NECESSARY TRAFFIC CONTROL. TRAFFIC CONTROL SHALL FOLLOWEXITING THE MORE STRINGENT GUIDELINES OF THE CITY OF MISSION OR ODOT.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND MAINTAIN FACILITIES FOR A CONSTRUCTION OFFICE, EMPLOYEE PARKING, AND EMPLOYEE SANITARY FACILITIES. ON STREET PARKING WILL NOT BE PERMITTED. THE CONTRACTOR SHALL PROVIDE FOR THE LAWFUL OFF-SITE DISPOSAL OF DEMOLITION DEBRIS AND CONSTRUCTION WASTE.

EXISTING DATA

EACH CONTRACTOR SHALL VISIT THE SITE PERSONALLY TO ASCERTAIN THE NATURE OF THE WORK AND BECOME THOROUGHLY FAMILARIZED WITH THE SITE PRIOR TO BID SUBMISSION.

EXISTING STRUCTURES, GRADES, PIPING, ETC. ARE INDICATED IN APPROXIMATE LOCATION ON THE PLAN. INFORMATION SHOWN IS NOT GUARANTED TO BE CORRECT AND COMPLETE. THE DATA SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THE EXISTENCE OF FACILITIES ABOVE OR BELOW GROUND, WHICH MAY NOT BE SHOWN, WILL NOT BE A BASIS FOR A CLAIM FOR EXTRA WORK.

EXISTING UNDERGROUND UTILITIES SHOWN ARE RECORDS PROVIDED BY UTILITY COMPANIES AND ARE APPROXIMATE ONLY. SERVICE LATERALS ARE NOT SHOWN.

IT IS THE RESPONSIBILITY OF CONTRACTOR TO NOTIFY THE CITY, PRIOR TO BID OPENING NON-CONNFORMING OR CONFLICTING INFORMATION.

ACCESSIBILITY TO PRIVATE PROPERTY

ACCESS TO ALL DRIVEWAYS AND PARKING AREAS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED AT ALL TIMES EXCEPT WHILE LAYING THE SANITARY SEWER ACROSS THE DRIVE. THE TRENCH SHALL BE BACKFILLED AT THE END OF EACH WORK DAY TO PROVIDE ACCESS. THE CONTRACTOR MUST NOTIFY EACH PROPERTY OWNER AT LEAST 24 HOURS IN ADVANCE OF CUTTING THIER DRIVEWAY.

PRESERVATION OF EXISTING UTILITY SERVICES

ANY EXISTING WATER LINE, SANITARY SEWER, STORM SEWER, GAS LINE OR OTHER UTILITY IN OR OUTSIDE OF THE CONSTRUCTION LIMITS, DAMAGED DURING CONSTRUCTION OF THE PROPOSED PROJECT, WILL BE REPLACED AT THAT CONTRACTORS EXPENSE.

EXCAVATED MATERIAL

ALL EXCAVATED MATERIAL AND ALL MATERIAL USED IN CONSTRUCTION OF THE WORK SHALL BE PILED AND STORED IN A MANNER THAT WILL NOT ENDANGER THE WORK AND THAT WILL LEAVE DRIVEWAYS OR OTHER CONTROLS UNOBSTRUCTED AND ACCESSIBLE WHILE THE WORK IS TO BE COMPLETED. SATISFACTORY PROVISIONS SHALL BE MADE FOR STREET DRAINAGE, AND NATURAL WATERCOURSES SHALL NOT BE OBSTRUCTED. DURING THE PROGRESS OF THE WORK, ALL MATERIAL PILES SHALL BE KEPT TRIMMED UP AND MAINTAINED IN A NEAT MANNER. ALL EXCAVATED WASTE MATERIAL SHALL BE REMOVED FROM THE PROJECT SITE, AS DIRECTED BY THE ENGINEER. THE WASTE SITE IS TO BE PROVIDED BY THE CONTRACTOR AT NO COST TO THE CITY, UNIFSS OTHERWISE NOTED IN THE SPECIFICATIONS. ALONG WITH A LETTER FROM THE PROPOSED WASTE SITE OWNER PERMITTING SUCH AND HOLDING THE CITY HARMLESS.

RESTORATION

SANITARY SEWER INSTALLED. TESTED. AND ACCEPTED UP TO MAY 15TH OF ANY CALENDER YEAI RESTORATION SHALL BE COMPLETE BY JUNE 30th OF THAT YEAR. FOR INSTALLATION OF SANITARY SEWER TESTED AND ACCEPTED FROM MAY 15th TO SEPTEMBER 30th OF ANY CALENDER YEAR, RESTORATION SHALL BE COMPLETE BY NOVEMBER 15th OF THAT CALENDER YEAR, FOR SANITARY SEWER INSTALLED, TESTED, AND ACCEPTED AFTER NOVEMBER 15TH OF ANY CALENDER YEAR. RESTORATION SHALL BE COMPLETE BY MAY 15th OF THE NEXT CALENDER YEAR.

ALL SOIL AREAS DISTURBED BY THE CONTRACTOR SHALL BE TOPSOILED, SEEDED AND MULCHED. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR EACH ITEM OF AFFECTED WORK. TOPSOIL, SEEDING AND MULCHING SHALL NOT BE A SEPERATE PAY ITEM. THIS INCLUDES BACKFILLING, SEEDING AND MULCHING ALONG THE EDGE OF ALL PAVEMENT RESTORATION.

PAVEMENT CROSSINGS WILL RECEIVE TYPE C PAVEMENT REPLACEMENT WITH FULL WIDTH PAVEMANT OVERLAY.

CONTRACTOR TO REPLACE ALL PAVEMENT MARKINGS. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR PAVEMENT CONTRACTOR TO USE HOT APPLIED JOINT CRACK SEALER ON ASPHALT PAVEMENT AT ALL ENDS AND INTERSECTIONS.

ALL TRENCHES IN ROAD RIGHT OF WAY WILL RECEIVE FULL DEPTH PREMIUM GRANULAR BACKFILL.

REMOVAL AND RELOCATION OF EXISTING UTILITIES

THE CONTRACTOR IS REQUIRED TO COOPERATE WITH EACH RESPECTIVE UTILITY OWNER FOR THE REMOVAL AND RELOCATION OF ANY AND ALL UTILITIES THAT CREATE A CONFLICT WITH CONSTRUCTION OF THE PROJECT.

ITEM 203SPEC. ROADWAY REMOVAL

ALL EXISTING CONCRETE INCLUDING CURBS, DRIVES, CULVERTS, AND BASE ETC. WITHIN WORK LIMITS SHALL BE REMOVED ALL EXISTING PAVEMENT REMOVAL OUTSIDE OF NEW PAVEMENT AREA SHALL BE GRADED, TOP SOIL AND SEEDED TO THE SATISFACTION OF THE CITY.

ALL ABOVE SAID WORK SHALL BE PAID FOR UNDER ITEM 203 ROADWAY REMOVAL, LUMP SUM BID

ITEM 623, CONSTRUCTION STAKING

CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT AND AS-BUILT DRAWINGS. THIS WORK IS TO BE PERFORMED UNDER ITEM 623 CONSTRUCTION STAKING.

MANHOLES, CATCH BASINS, INLETS AND PIPES REMOVED OR ABANDONED

ALL CASTING, PRE—CAST STRUCTURES AND PIPES SHALL BE CAREFULLY REMOVED AND STORED WITHIN THE RIGHT-OF-WAY FOR SALVAGE BY THE CITY. CONTACT THE CITY OF MASSILLON STREET SUPERINTENDENT - MARK LIGHTFOOT AT 330-833-5746. ANY UNWANTED MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR. PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 ITEM.

ITEM 407, TACK COAT

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.08 GALLONS PER SQUARE YARD OF TACK COAT FOR EXTISMATING PURPOSES ONLY.

ITEM 408, BITUMINOUS PRIME COAT

THE RATE OF APPLICATION OF THE 408 PRIME COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.40 GALLONS PER SQUARE YARD OF PRIME COAT FOR ESTIMATING PURPOSES ONLY.

CROSSING OR CONNECTING TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRDE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PLAN PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

PAYMENT FOR THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEM.

ITEM 604, CATCH BASIN TYPE 2-2-B

CATCH BASINS SHALL BE CONSTRUCTED IN COMFORMANCE WITH ITEM 604 EXCEPT THAT THEY SHALL BE A LINDSAY PRE-CAST STANDARD SQUARE CATCH BASIN TYPE 2-2-B OR APPROVED EQUAL. THE GRATE SHALL BE EAST JORDAN NO. 5110 TYPE M2 OR APPROVED EQUAL.

ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT

THIS WORK SHALL CONSIST OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING CONDUIT AND FILLING THE AREA THUS SEALED OFF WITH LEAN GROUT, ITEM 613 SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

BULKHEADS SHALL BE LOCATED AT THE LIMITS OF THE AREA TO BE FILLED AS INDICATED ON THE PLANS. THE BULKHEADS SHALL CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

THE FILL MATERIAL SHALL BE PUMPED INTO PLACE, OR PLACED BY OTHER MEANS APPROVED BY THE ENGINEER. SO THAT, AFTER SETTLEMENT, AT LEAT 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH, SHALL BE FILLED. THE LENGTH OF THE FILLED AND PLUGGED CONDUIT TO BE PAID FOR SHALL BE THE ACTUAL NUMBER OF LINEAR FEET MEASURE ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

IN LIEU OF FILLING AND PLUGGING THE EXISTING CONDUIT, THE PIPE BE CRUSHED AND BACKFILLED IN ACCORDANCE WITH THE PROVISIONS OF 203, OR IT MAY BE REMOVED.

THE LENGTH MEASURED AS PROVIDED ABOVE, SHALL BE PAID FOR AT THE CONTRACT PRICE PER LINEAR FOOT FOR, ITEM SPECIAL, AND PLUG EXISTING CONDUIT. FILL

ITEM 659, TOPSOIL, SEEDING AND MULCHING

ITEM 659 SHALL BE APPLIED TO ALL EXPOSED SOIL AREAS DISTURBED DURING CONSTRUCTION. SUCH AS SPECIFIED IN ITEM 659 AND IS NOT LIMITED TO JUST TOPSOIL, SEEDING AND MULCHING.

THE CITY SHALL APPROVE SEED MIX PRIOR TO CONSTRUCTION TO BE USED THROUGHOUT CONSTRUCTION LIMITS. ROPOSED MIX SHALL BE SUBMITTED IN WRITING PRIOR TO ANY CONSTRUCTION. ALL ABOVE SAID WORK SHALL BE PAID FOR UNDER ITEM 659, SEEDING AND MULCHING LUMP SUM BID.

ITEM 201spec. - CLEARING AND GRUBBING

THIS WORK SHALL CONFORM TO ODOT SPEC. ITEM 201 CLEARING AND GRUBBING EXCEPT AS LISTED BELOW:

SHALL INCLUDE ALL TREE AND BRUSH REMOVAL REGARDLESS OF SIZE. WITHIN CLEARING LIMITS UNLESS OTHERWISE DIRECTED BY THE CITY OR COUNTY INSPECTOR. CLEARING AND GRUBBING LIMITS SHALL BE 27'(FEET) EACH SIDE OF THE CENTERLINE OF CONSTRUCTION. FROM BEGIN WORK TO END WORK.

ITEM 651, TOPSOIL STOCKPILED

THE MATERIAL FOR THIS ITEM SHALL BE OBTAINED FROM AREAS WITHIN THE PROPOSED RIGHT-OF-WAY.

PROVISION OF THIS 651 ITEM SHALL NOT BE CONSTRUCTED AS A WAIVER OF THE PROVISIONS OF 201.4 SOD AND INCIDENTAL TOPSOIL REMOVED ELSEWHERE ON THIS PROJECT FOR SALVAGE, FOR USE AS DESCRIBED IN 203.04(e). SHALL BE INCLUDED IN THE CONTRACT PRICE FOR VARIOUS 203 ITEMS.

ALL COSTS OF THE ABOVE SAID WORK SHALL BE INCLUDED IN ITEM 653 TOPSOIL FURNISHED AND PLACED

BULK HEAD

BULK HEADS MAY BE REQUIRED DO TO THE REMOVAL OF AN EXISTING PIPE OR STRUCTURE CONTRACTOR SHALL PLACE BULK HEADS AS DIRECTED BY ENGINEER.

ALL COSTS OF THE ABOVE SAID WORK SHALL BE INCLUDED IN ITEM 202 PIPE REMOVED

THE WORK ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 609.

DOWN SPOUTS

ALL DOWN SPOUTS UNABLE TO BE CONNECTED TO THE STORM LATERAL SHALL BE PUT THROUGH THE CURB AS PER ENGINEER'S DIRECTION.

CURB OPENING SHALL NOT GREATER THAN A 3 1/2" DIAMETER.

REVIEW OF SANITARY AND DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE CITY OF MASSILLON AND THE CONTRACTOR. ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FEILD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BT THE CITY OF MASSILLON.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BT THE CITY OF MASSILLON.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEMS.

WORKING AREA

NO EXCAVATION WITH SIDE SLOPES STEEPER THAN 2:1 AND/OR DEEPER THAN 2', OPEN CASTINGS AND PIPES SHALL BE LEFT EXPOSED WHEN THE SITE IS UNATTENDED BY THE CONTRACTOR. THE CONTRACTOR SHALL SECURE ALL SUCH EXCAVATIONS, OPEN CASTINGS AND PIPES AGAINST UNAUTHORIZED ENTRY COVERING WITH STEEL PLATES, TEMPORARY BACKFILLING, FENCING AND SECURITY SERVICES SHALL BE INCLUDED IN THE PRICE BID FOR THE WORK.

ITEM 207SPEC, EROSION CONTROL

THE CONTRACTOR SHALL PREPARE AND SUBMIT A STORM WATER POLLUTION CONTROL PLAN TO THE CITY OF MASSILLON ENGINEER TO FORWARDED TO OBTAIN A PERMIT. THE STORM WATER POLLUTION CONTROL PLAN SHALL AN EFFECTIVE PLAN. SAID PLAN MUST COMPLY W/BE THE OHIO DEPARTMENT OF NATURAL RESOURCES. THE OHIO EVIROMETAL SOIL AND WATER CONSERVATION DISTRICT AND THE CITY OF MASSILLON BEST MANAGEMENT PRACTICES.

BECAUSE OF THE LINEAR NATURE OF THIS PROJECT. THE PLAN WILL VARY DAILY BASED UPON THE CONTRACTORS MEANS AND METHODS OF CONSTRUCTION. THE CITY AND ALL LOCAL, STATE AND FEDERAL AGENCIES WILL MONITOR THE CONSTRUCTION SITE AND THE CHOSEN METHOD OF SOIL EROSION CONTROL. THE CONTRACTOR WILL BE HELD TO FOLLOWING THE IMPLEMENTATION AS NECESSARY TO PROTECT THE INTEGRITY OF THE STORM SEWERS AND THE WATER'S OF THE STATE OF OHIO.

BELOW IS A NUMBER OF MISC. ITEMS WHICH MAYBE USED BUT NOT LIMITED TO.

ITEM 870 - COMMERCIAL FERTILIZER ITEM 870 - REPAIR SEEDING AND MULCHING ITEM 870 - WATER

ITEM 877 - TEMPORARY SEEDING AND MULCHING ITEM 877 - TEMPORARY FILTER FABRIC FENCE ITEM 877 - TEMPORARY INLET PROTECTION

ALL COSTS OF THE ABOVE SAID WORK SHALL BE INCLUDED IN ITEM 207SPEC EROSION CONTROL.

REMOVAL OF TRAFFIC CONTROL DEVICES AND PRECAST STRUCTURES

ALL TRAFFIC CONTROL DEVICES AND PRE-CAST STRUCTURES WITH CASTINGS SHALL BE REMOVED IN A WAY NOT TO DAMAGE, AT THE TIME OF REMOVAL THE INSPECTOR WILL MARK EACH SALVAGABLE STRUCTURE. SAID ITEMS SHALL BE STORED UNTIL THEY CAN BE TRANSPORTED TO ITS RESPECTIVE OWNER BY THE CONTRACTOR. THE CONTRACTOR MUST COORDINATE SAID DELIVERIES WITH MARK LIGHTFOOT AT MASSILLON (330)833-5746 AND JOHN MASACKO AT PERRY TOWNSHIP (330)833-2141.

ALL OF THE ABOVE SAID WORK SHALL BE INCLUDED IN PERTINENT 202 ITEM.

ITEM 700 - PAVEMENT REINFORCEMENT FABRIC, TYPE E (712.09)

FABRIC SHALL BE PLACED ALONG ANY WIDING OR BASE REPAIR JOINT. FABRIC SHALL BE A CRACK RETARDING GEO-COMPOSITE MEMBRANE (PAVEPREP OR APPROVED FOUAL), WIDTH OF FABRIC SHALL BE A MINIMUM OF 24" PLACED CENTERED ALONG JOINT. INSTALLATION OF FABRIC SHALL BE PER MANUFACTURE SPECIFICATIONS.

ALL COSTS INCLUDING MATERIALS AND INSTALLATION SHALL BE PAID FOR UNDER ITEM 690Spec. - FABRIC PER L.F

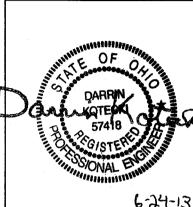
<u>ITEM 604, MASS CI</u>

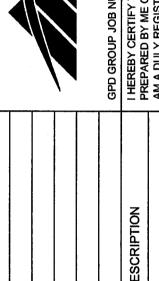
CATCH BASINS IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED IN CONFORMANCE WITH ITEM 604 EXCEPT THAT THE GRATES SHALL BE NEENAH NO. R-4859-C WITH NO DUMP NO WASTE OR EAST JORDON NO. 7350 WITH FISH BACK OR APPROVED EQUALS.

ITEM 609, CAST IN PLACE 6"X18" CONCRETE CURB

GRANULAR BEDDING, BACKFILLING AND CONCRETE CURB PLACEMENT ALONG WITH ALL APPURTENANCES IS TO BE INCLUDED IN ITEM 609. THIS SHALL ALSO INCLUDE THE REPLACEMENT AND REMOVAL OF ALL WALK EXTENSIONS DISTURBED DUE TO CURB PLACEMENT.







S WALGREENS
REET NW AND LINC
MASSILLON, OHIO

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Cherne Cas Federal Ave NE SITE Mailting A Solication A Solication Ave N Federal Ave N Fed



REFERENCES: 1. COUNTY TAX MAP

ZONING:
B2 - CENTRAL BUSINESS DISTRICT

2. DEEDS

INFORMATION NOT PROVIDED BY TITLE

3. PLATS

. PLAIS

4. TITLE REPORT

GENERAL NOTES:

LEGEND:

MONUMENT BOX FOUND AS NOTED

EXISTING DECORATIVE LIGHT POLE

EXISTING ELECTRIC TRANSFORMER

EXISTING SANITARY MANHOLE

EXISTING STORM MANHOLE

EXISTING CATCH BASIN

EXISTING DOWN SPOUT

EXISTING WATER VALVE
EXISTING FIRE HYDRANT

EXISTING WATER METER

EXISTING GAS METER

EXISTING GAS VALVE

EXISTING SPRINKLER VALVE

EXISTING GAS LINE MARKER

EXISTING OUPS WATER LINE FLAG

EXISTING OUPS GAS LINE FLAG

EXISTING TELEPHONE PEDESTAL

EXISTING TELEPHONE MANHOLE

EXISTING DECIDUOUS TREE

EXISTING CONIFER TREE

EXISTING PIPE BOLLARD

--- E --- EXISTING UNDERGROUND ELECTRIC

EXISTING OVERHEAD UTILITIES

EXISTING UNDERGROUND GAS

EXISTING PROPERTY LINE

-R/W- EXISTING RIGHT OF WAY LINE

EXISTING CENTERLINE

EXISTING UNDERGROUND TELEPHONE

EXISTING UNDERGROUND WATER

EXISTING UNDERGROUND SANITARY

EXISTING BUSH

EXISTING TELEPHONE LINE MARKER

EXISTING OUPS TELEPHONE LINE MARKER

DRILL HOLE, MAG NAIL OR PK NAIL FOUND

5/8" X 30" REBAR WITH CAP "GPD" SET

IRON PIN FOUND AS NOTED

EXISTING LIGHT POLE

EXISTING SIGNAL POLE

EXISTING SIGNAL BOX

EXISTING CLEAN OUT

EXISTING ELECTRIC BOX

EXISTING ELECTRIC METER

1. THE DESCRIBED REAL ESTATE IS LOCATED IN A ZONE "X", AS INDICATED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S NATIONAL FLOOD INSURANCE PROGRAM PANEL NO. 39151C0192E, EFFECTIVE DATE OF SEPTEMBER 29, 2012.

2. THE EXISTENCE AND/OR LOCATION OF UTILITIES WERE OBTAINED BY FIELD CHECKS AND RESEARCH OF AVAILABLE RECORDS, AS REQUIRED BY O.R.C. 153.64. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT; THE SURVEYOR MAKES NO GUARANTEE TO THEIR ACCURACY OR COMPLETENESS. EXACT UTILITY LOCATIONS MUST BE FIELD VERIFIED AT THE TIME OF CONSTRUCTION.

3. THIS SURVEY IS NOT FOR THE PURPOSE OF LOCATING OR IDENTIFYING ANY POLLUTANTS OR HAZARDOUS MATERIALS ON OR UNDER THE PROPERTY SHOWN HEREON.

4. BENCHMARK ELEVATIONS ARE TO BE FIELD VERIFIED BEFORE ANY CONSTRUCTION BEGINS.

CERTIFICATION:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2011 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6(a), 7(a), 8, 9, 10, 11(b), 13, 14, 17, AND 20(a) OF TABLE A THEREOF. FIELD WORK WAS COMPLETED ON FEBRUARY 29, 2012.

STEVEN L. MULLANEY, P.S. 7900

DATE

TITLE BOUNDARY DESCRIPTION:

Situated in the City of Massillon, County of Stark, State of Ohio, described as follows:

Tract 1: Situated in the City of Massillon, County of Stark and State of Ohio: And being a part of Lot No. One Hundred and Three (103), bounded and described as follows:

Beginning at the northeast corner of Lot Number 10508 in the City of Massillon, said corner being the true place of beginning of the tract of land herein to be described; thence South 69° 19' 07" West and with the north line of Lot number 10508 and the westerly projection of said north line of Lot Number 10508 a distance of 83.00 feet to a point:

thence South 20° 37' 35" East a distance of 30 feet to a point on the north line of Lot Number 5162;

thence South 69° 19' 07" West and with the north line of Lot Number 5162 a distance of 38.77 feet to an iron pin, the northwest corner of Lot Number 5162 and the east line of Lot Number 13043;

thence North 20° 42' 10" West and with the east line of said Lot Number 13043 a distance or 30.00 feet to an iron pin;

thence North 14° 59' 40" West and with the east line of said Lot Number 13043 a distance of 40.21 feet to an iron pin;

40.38 feet to an iron pin and the south line of Federal Avenue, N.W.;

thence North 69° 19' 50" East and with the south line of Federal Avenue, N.W. a distance of 109.92 feet to a point and the west line of Erie Street, North;

thence South 20° 37' 35" East a with the west line of Erie Street a distance of 80.00 feet to a PK nail and the true place of beginning and containing 0.2413 acre.

Tract 2: Situated in the City of Massillon, County of Stark and State of Ohio: Being Lots Number Ninety—Nine (99), One Hundred (100), One Hundred One (101), One Hundred Two (102), Four Hundred Fifteen (415), Four Hundred Sixteen (416), Thirteen thousand Six Hundred Ninety—Three (13693), Thirteen Thousand Six Hundred Ninety—Four (13694), and Thirteen Thousand Six Hundred Ninety—Five (13695), according to the present numbering of lots in said City of Massillon, Ohio.

Tract 3: Situated in the City of Massillon, County of Stark and State of Ohio; Being Lot Number Thirteen Thousand Forty—Three (13043), according to the present numbering of lots in said City of Massillon, Ohio.

SCHEDULE B - SECTION II:

FIRST AMERICAM TITLE INSURANCE COMPANY COMMITMENT No.: NCS-497381-CLE EFFECTIVE DATE: JULY 29, 2011 at 8:00 a.m.

9. Party Wall Agreement as recorded in Volume 375, Page 462, Stark County Records. (Lot 101)

(AFFECTS SITE. NO PLOTTABLE ITEMS)

 Restrictions contained in Deed recorded in Volume 1349, Page 587, Stark County Records. (Lot 101)
 (DOES NOT AFFECT SITE, RESTRICTIONS NO LONGER IN EFFECT)

11. Easement to the Ohio Public Land Company as recorded in Volume 1187, Page 387, Stark County Records. (Lot 103)

(DOES NOT AFFECT SITE. EASEMENT IN LEXINGTON TOWNSHIP, OHIO)

12. Right of Way to The East Ohio Gas Company as recorded in Volume 2858, Page 191, Stark County Records. (Lot 103)

(AFFECTS SITE, PLOTTED AND SHOWN)

13. Easement for storm sewer reserved in Deed recorded in Volume 3709, Page 621, Stark

13. Easement for storm sewer reserved in Deed recorded in Volume 3709, Page 621, Stark County Records. (Lot 13043) (AFFECTS SITE, PLOTTED AND SHOWN)

GPD GROUP®

Glaus, Pyle, Schomer, Burns & DeHaven, Inc.

520 South Main Street, Suite 2531

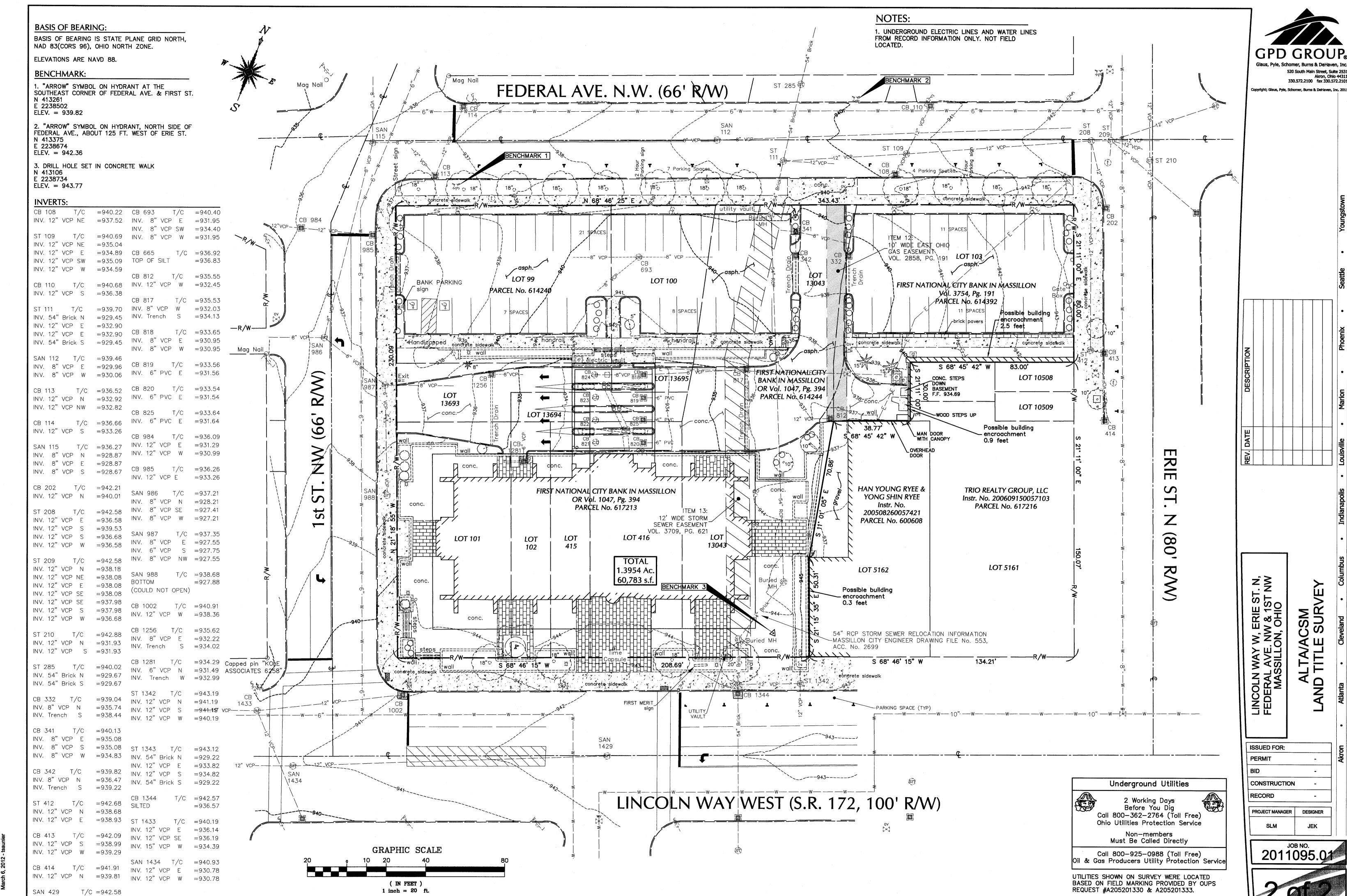
Akron, Ohio 44311

330.572.2100 fax 330.572.2101

	REV.	REV. DATE		DE	DESCRIPTION	NO		
•	Louisville	ville	•	Marion	•	Phoenix	•	Seat

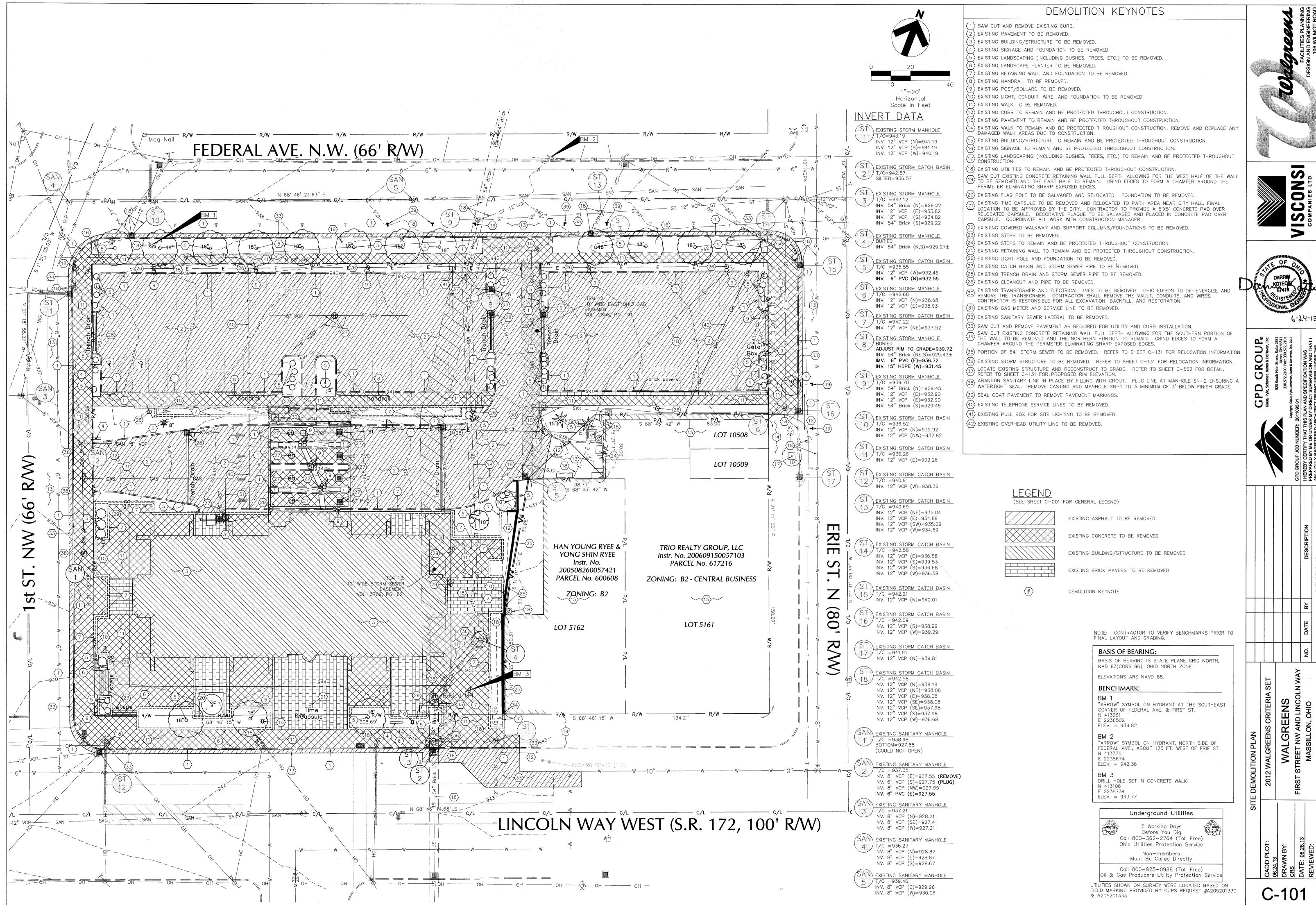
INCOLN WAY W, ERIE ST. N,
EDERAL AVE. NW & 1ST NW
MASSILLON, OHIO
ALTA/ACSM
AND TITLE SURVEY

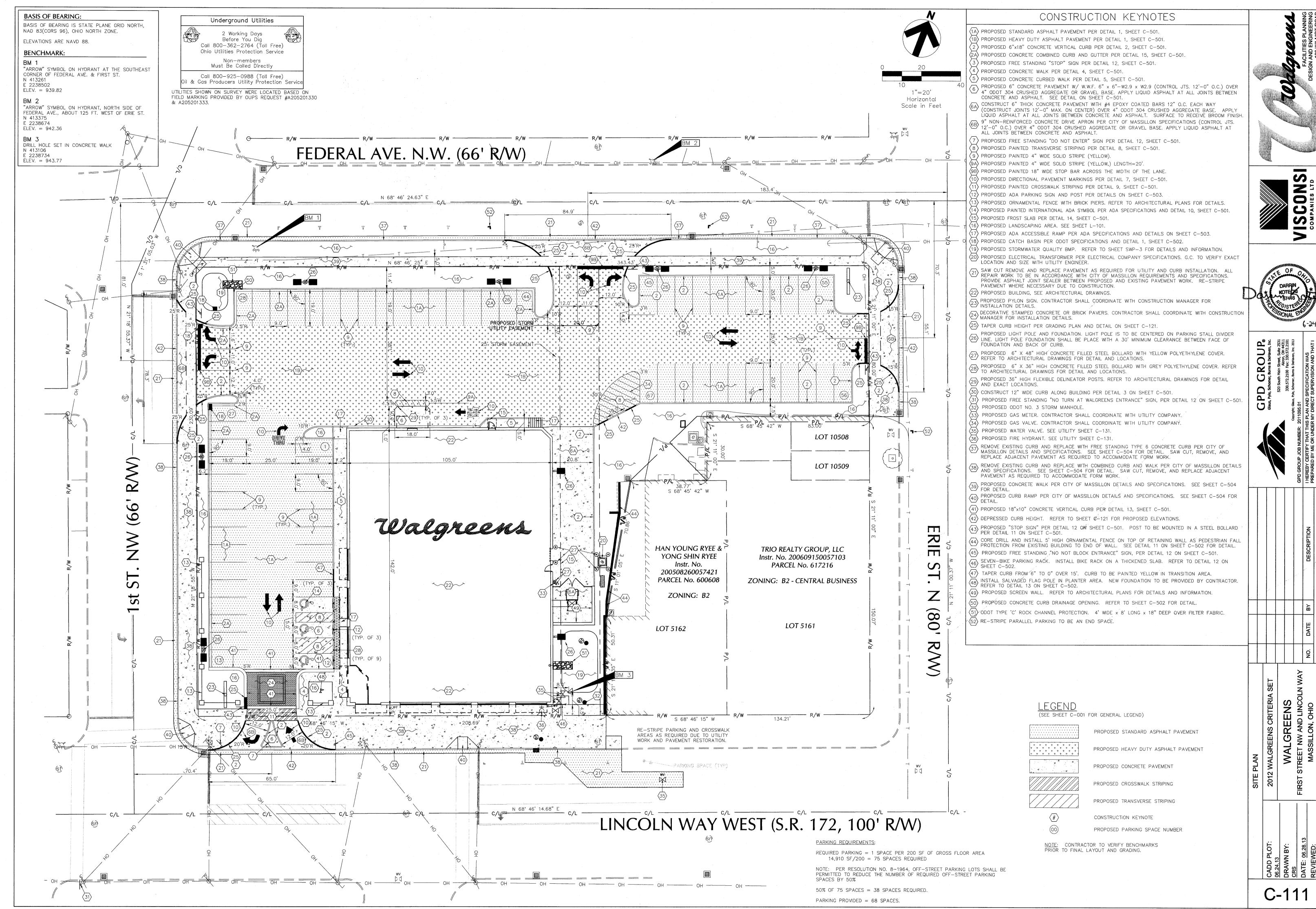
		•
ISSUED FOR:		5
PERMIT	-	Akron
BID	-	
CONSTRUCTION	**	
RECORD	-	

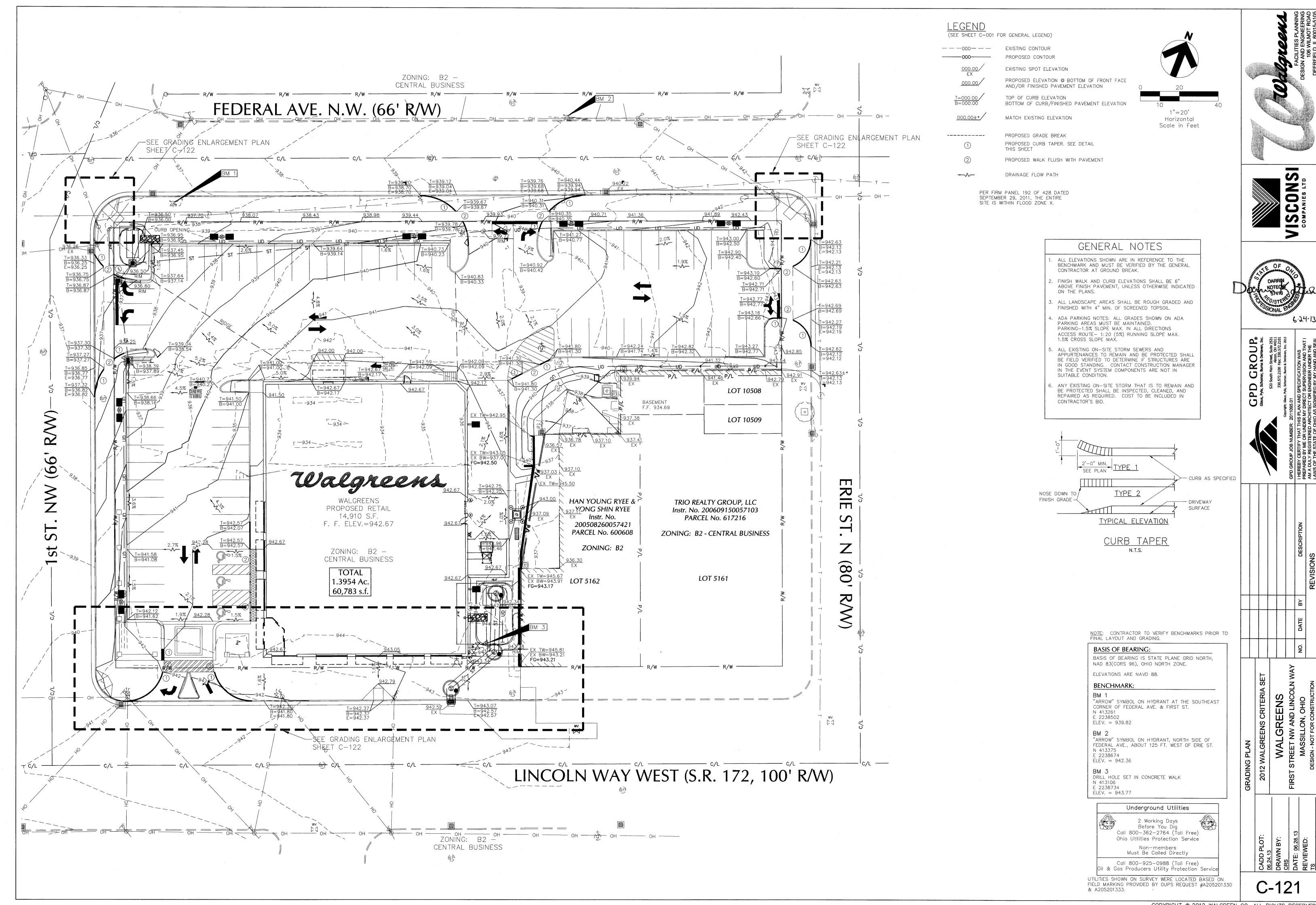


INV. 8"PVC Vertical =933.58

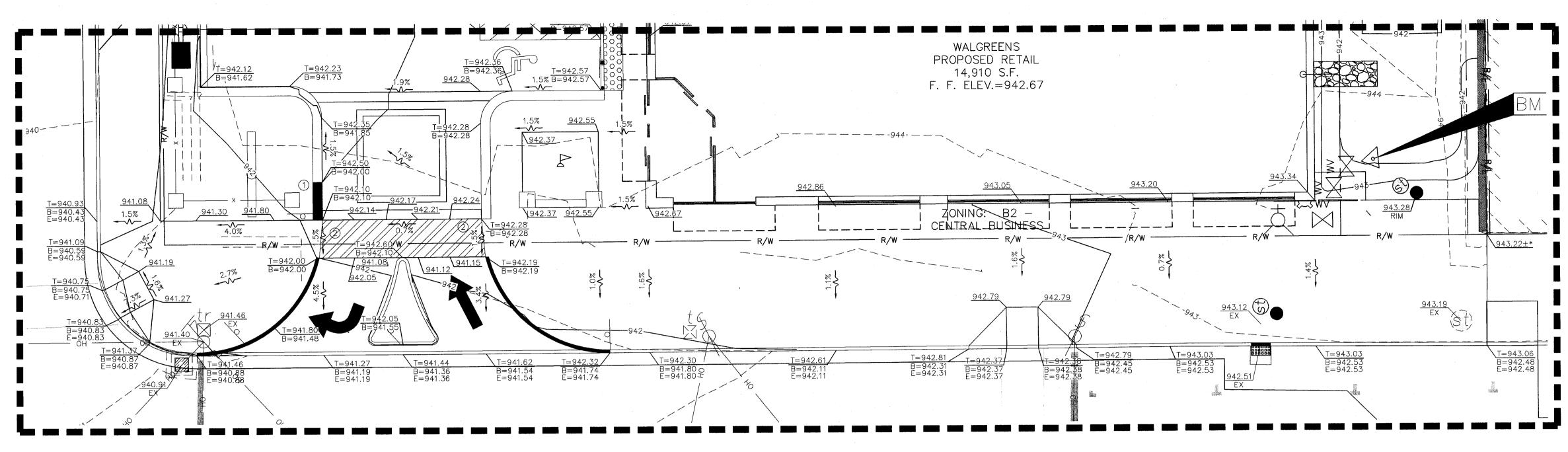
520 South Main Street, Suite 2531 Akron, Ohio 44311 330.572.2100 fax 330.572.2101





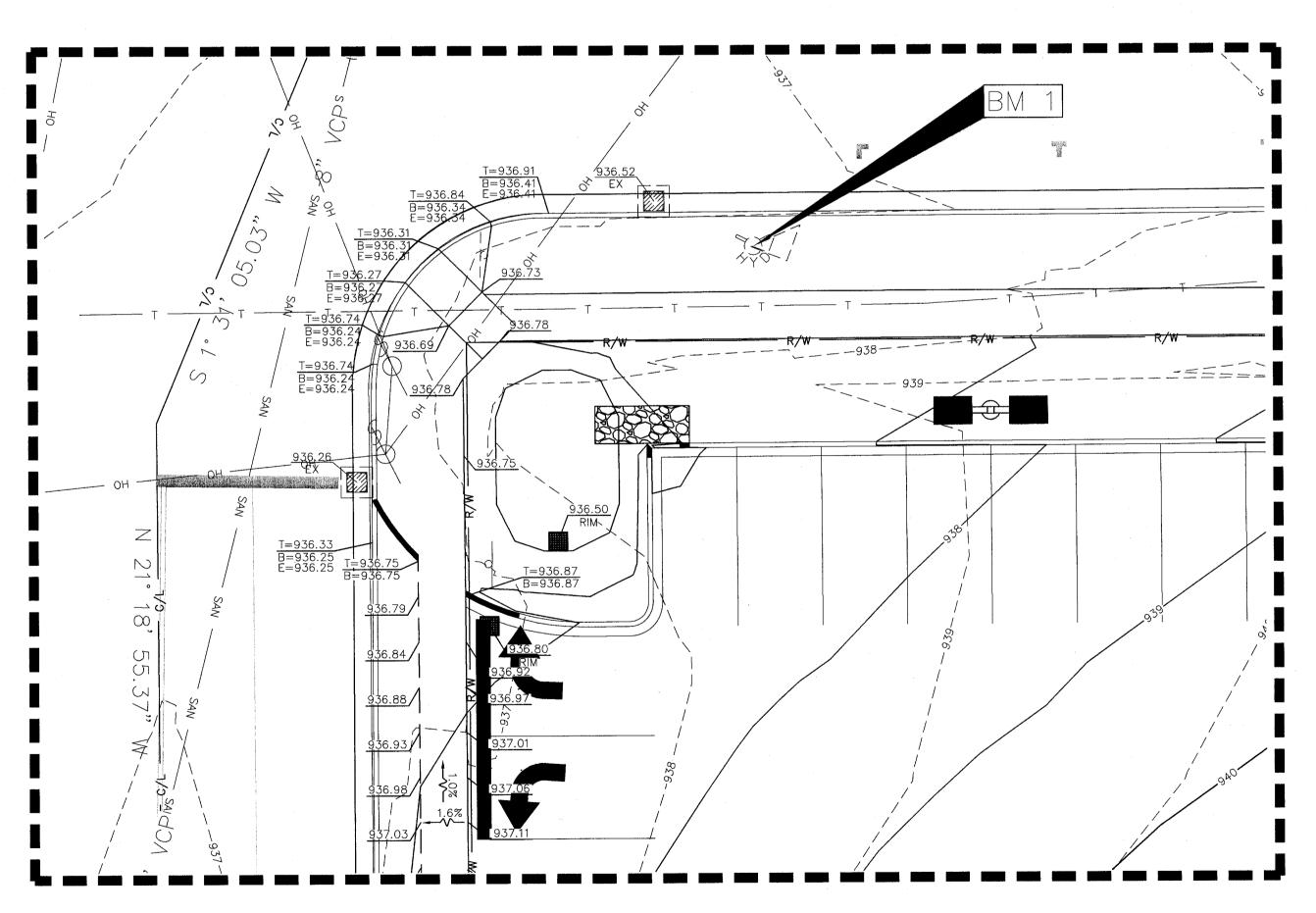


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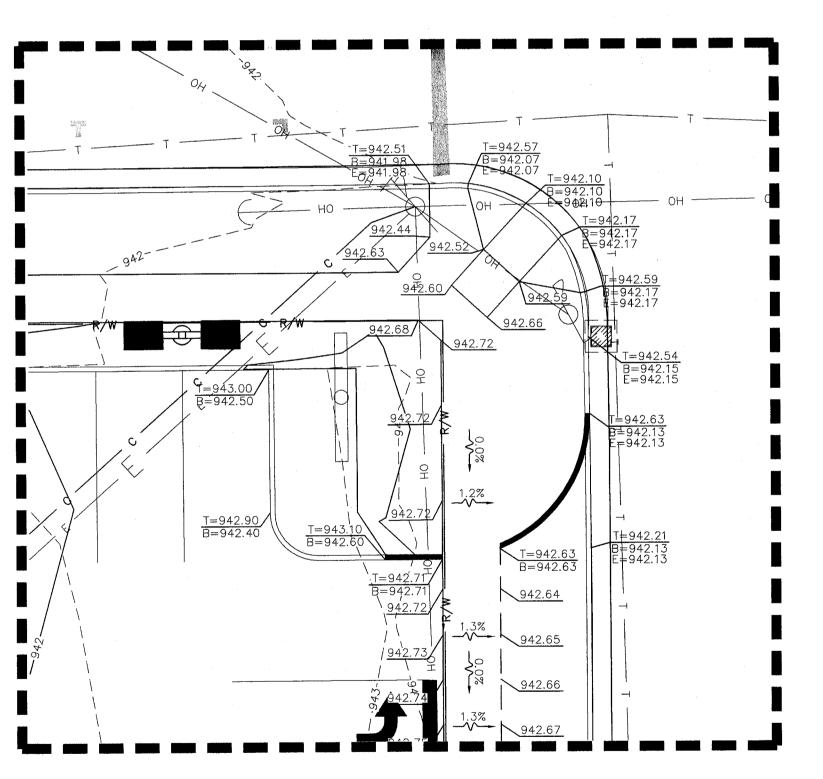


GRADING ENLARGEMENT PLAN SCALE: 1"=10'





GRADING ENLARGEMENT PLAN SCALE: 1"=10'



GRADING ENLARGEMENT PLAN SCALE: 1"=10'

LEGEN

(SEE SHEET C-001 FOR GENERAL LEGEND)

000.00 PROPOSED ELEVATION @ BOTTOM OF FRONT FACE AND/OR FINISHED PAVEMENT ELEVATION

T=000.00

B=000.00

TOP OF CURB ELEVATION

BOTTOM OF CURB/FINISHED PAVEMENT ELEVATION

MATCH EXISTING ELEVATION

PROPOSED CURB TAPER. SEE DETAIL
SHEET C-121

2 PROPOSED WALK FLUSH WITH PAVEMENT

DRAINAGE FLOW PATH

GENERAL NOTES

ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR AT GROUND BREAK.

2. FINISH WALK AND CURB ELEVATIONS SHALL BE 6"
ABOVE FINISH PAVEMENT, UNLESS OTHERWISE INDICATED
ON THE PLANS.

3. ALL LANDSCAPE AREAS SHALL BE ROUGH GRADED AND FINISHED WITH 4" MIN. OF SCREENED TOPSOIL.

4. ADA PARKING NOTES: ALL GRADES SHOWN ON ADA PARKING AREAS MUST BE MAINTAINED. PARKING-1.5% SLOPE MAX. IN ALL DIRECTIONS ACCESS ROUTE- 1:20 (5%) RUNNING SLOPE MAX. 1.5% CROSS SLOPE MAX.

5. ALL EXISTING ON—SITE STORM SEWERS AND APPURTENANCES TO REMAIN AND BE PROTECTED SHALL BE FIELD VERIFIED TO DETERMINE IF STRUCTURES ARE IN GOOD STANDING. CONTACT CONSTRUCTION MANAGER IN THE EVENT SYSTEM COMPONENTS ARE NOT IN SUITABLE CONDITION.

6. ANY EXISTING ON—SITE STORM THAT IS TO REMAIN AND BE PROTECTED SHALL BE INSPECTED, CLEANED, AND REPAIRED AS REQUIRED. COST TO BE INCLUDED IN CONTRACTOR'S BID.

NOTE: CONTRACTOR TO VERIFY BENCHMARKS PRIOR TO FINAL LAYOUT AND GRADING.

BASIS OF BEARING: BASIS OF BEARING IS STATE PLANE GRID NORTH, NAD 83(CORS 96), OHIO NORTH ZONE.

ELEVATIONS ARE NAVD 88.

BENCHMARK:

"ARROW" SYMBOL ON HYDRANT AT THE SOUTHEAST CORNER OF FEDERAL AVE. & FIRST ST. N 413261 E 2238502 ELEV. = 939.82

BM 2
"ARROW" SYMP

"ARROW" SYMBOL ON HYDRANT, NORTH SIDE OF FEDERAL AVE., ABOUT 125 FT. WEST OF ERIE ST. N 413375 E 2238674 ELEV. = 942.36

BM 3 Drill hole se

DRILL HOLE SET IN CONCRETE WALK N 413106 E 2238734 ELEV. = 943.77

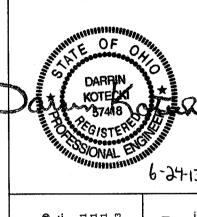
Underground Utilities 2 Working Days Before You Dig Call 800-362-2764 (Toll Free) Ohio Utilities Protection Service Non-members Must Be Called Directly

UTILITIES SHOWN ON SURVEY WERE LOCATED BASED ON FIELD MARKING PROVIDED BY OUPS REQUEST #A205201330 & A205201333.

Call 800-925-0988 (Toll Free)
Dil & Gas Producers Utility Protection Service

FACILITIES PLANN
DESIGN AND ENGINEER
106 WILMOT RC

VISCONS



TE BY DESCRIPTION I HEREBY CERTIFY PREPARED BY WE STAN BOILY REGIS

ALGREENS CRITERIA SET
ALGREENS
ET NW AND LINCOLN WAY
ASSILLON, OHIO
DATE
BY
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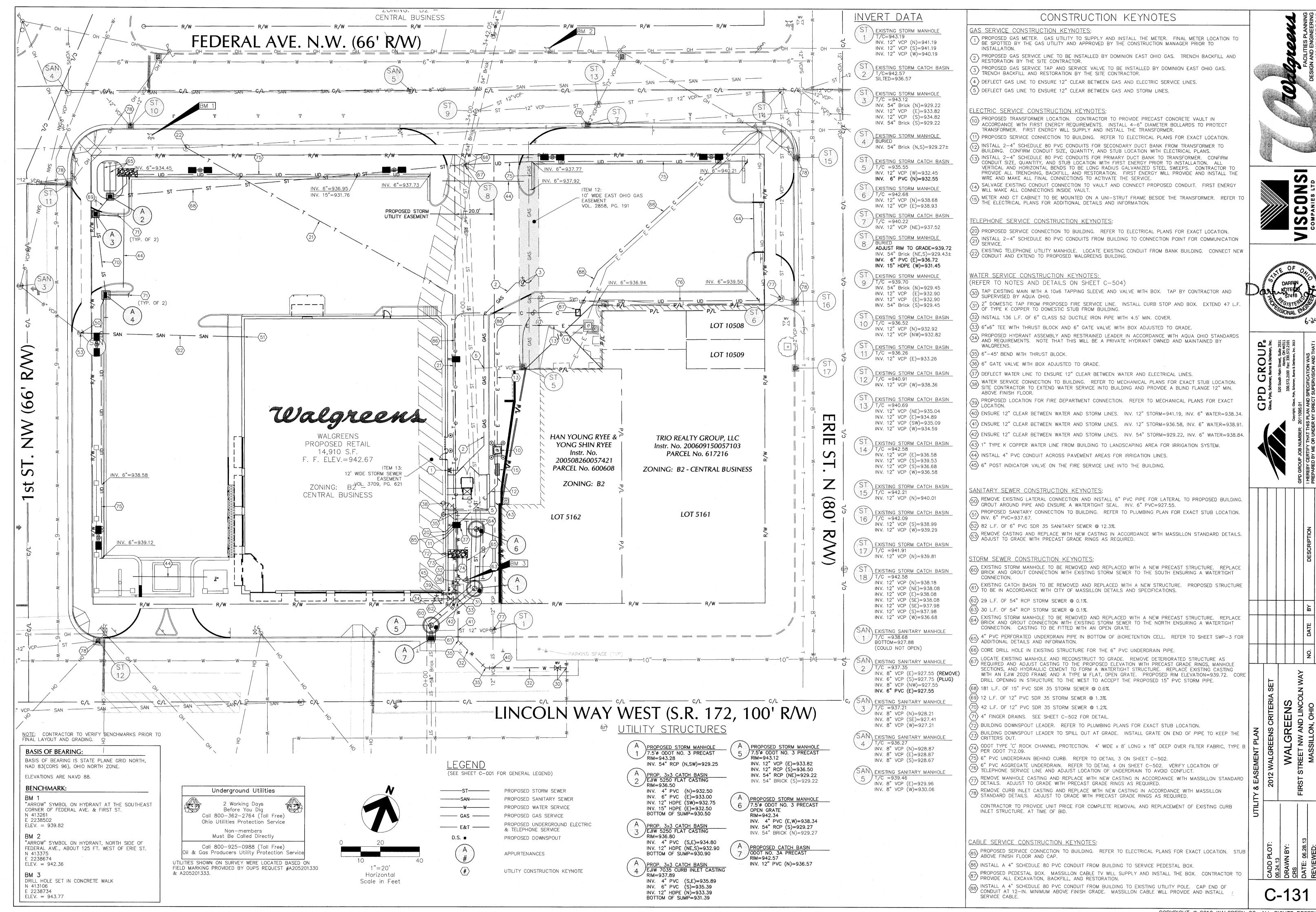
ENLARGED GRADING DETAILS

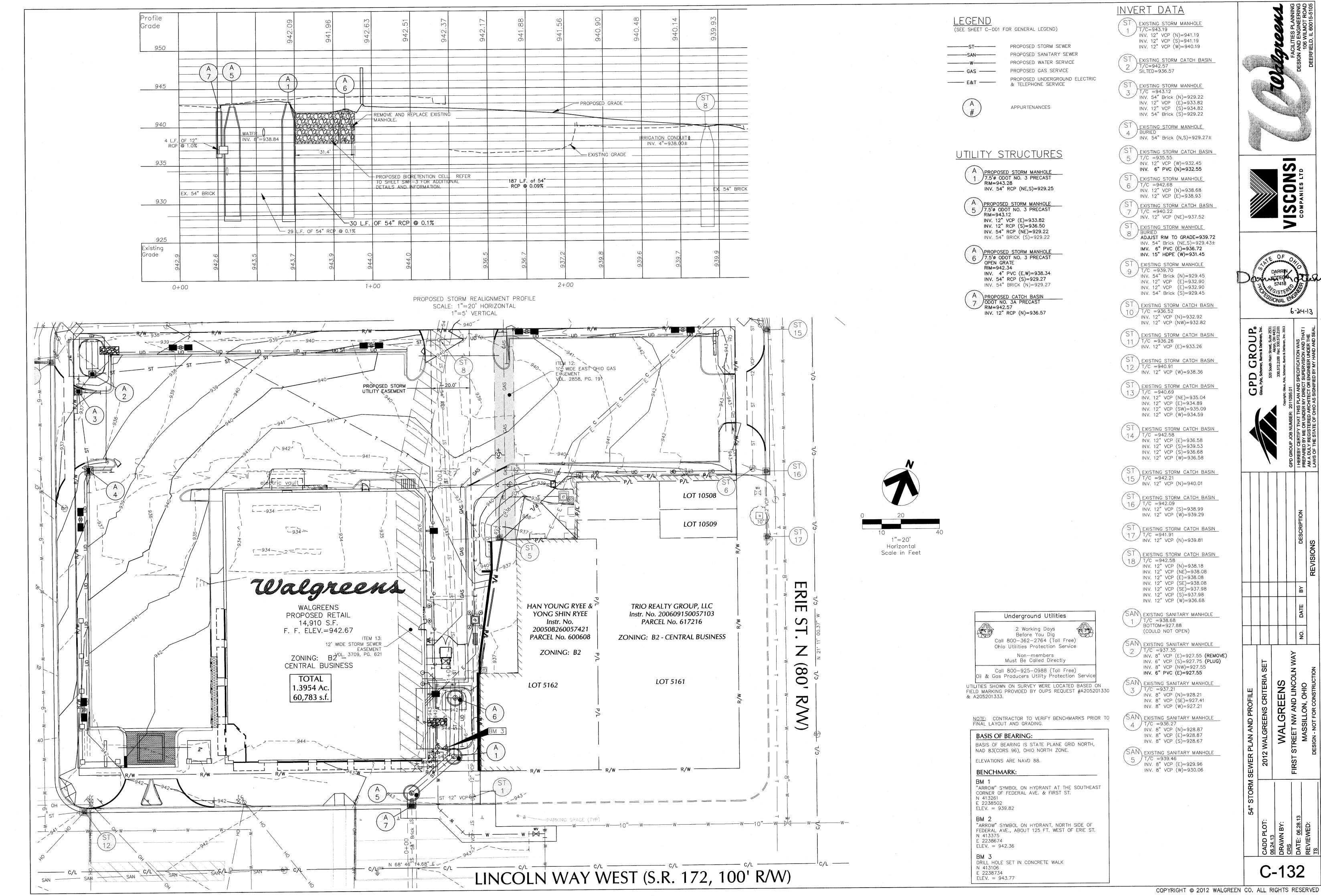
2012 WALGREENS CRI

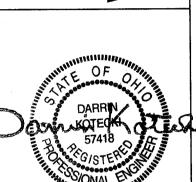
WALGREE

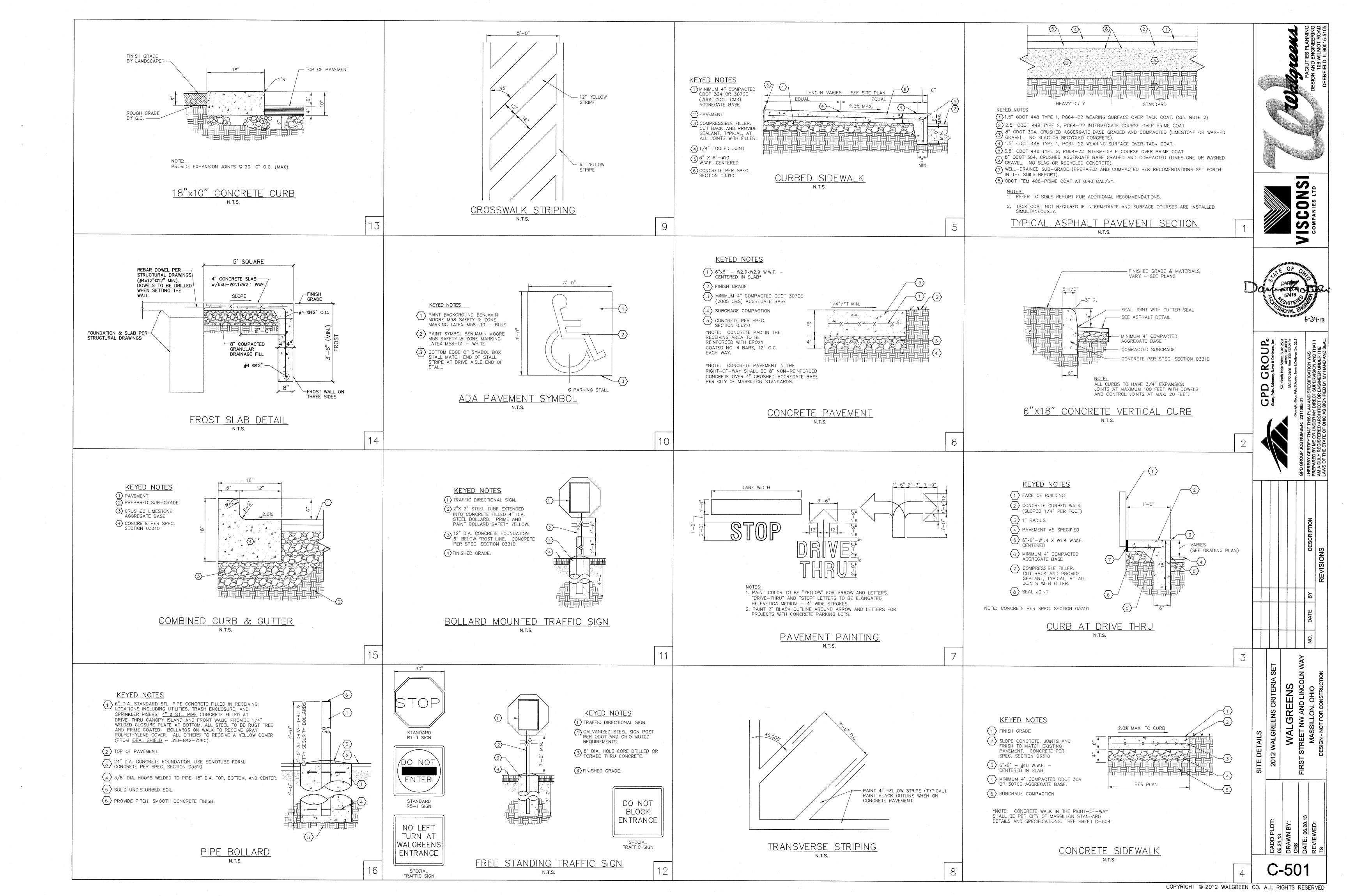
FIRST STREET NW AND L

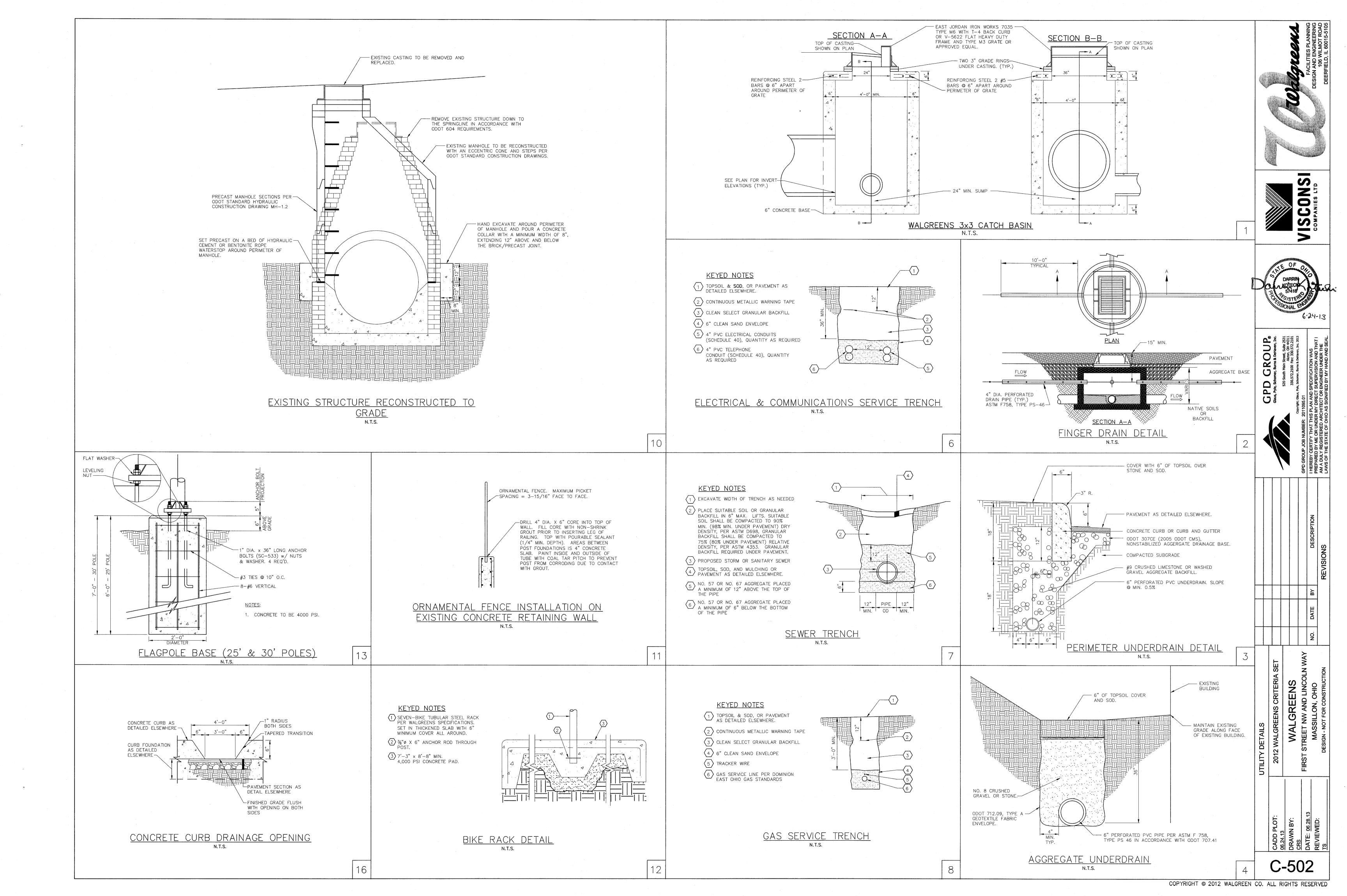
MASSILLON, O

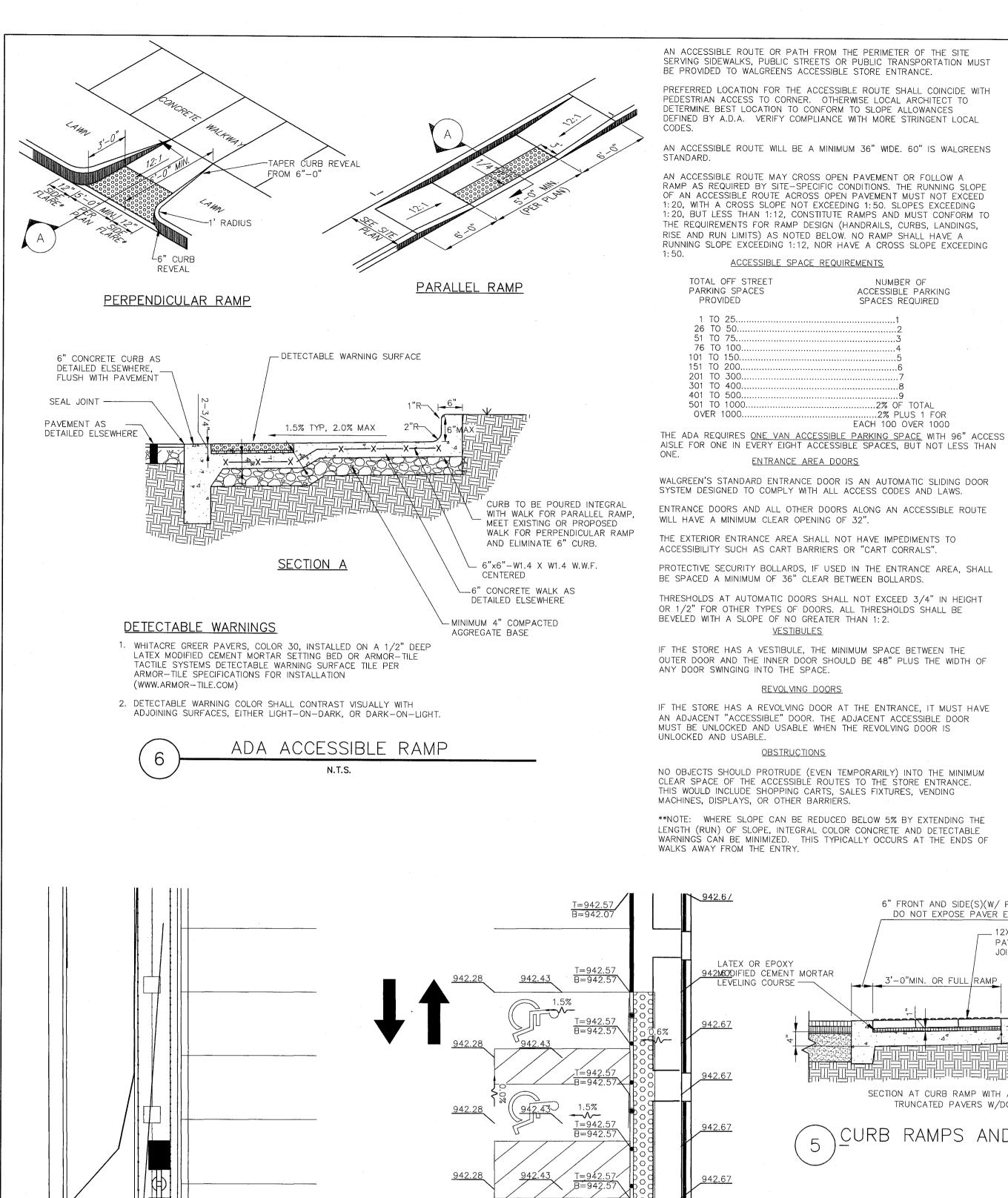


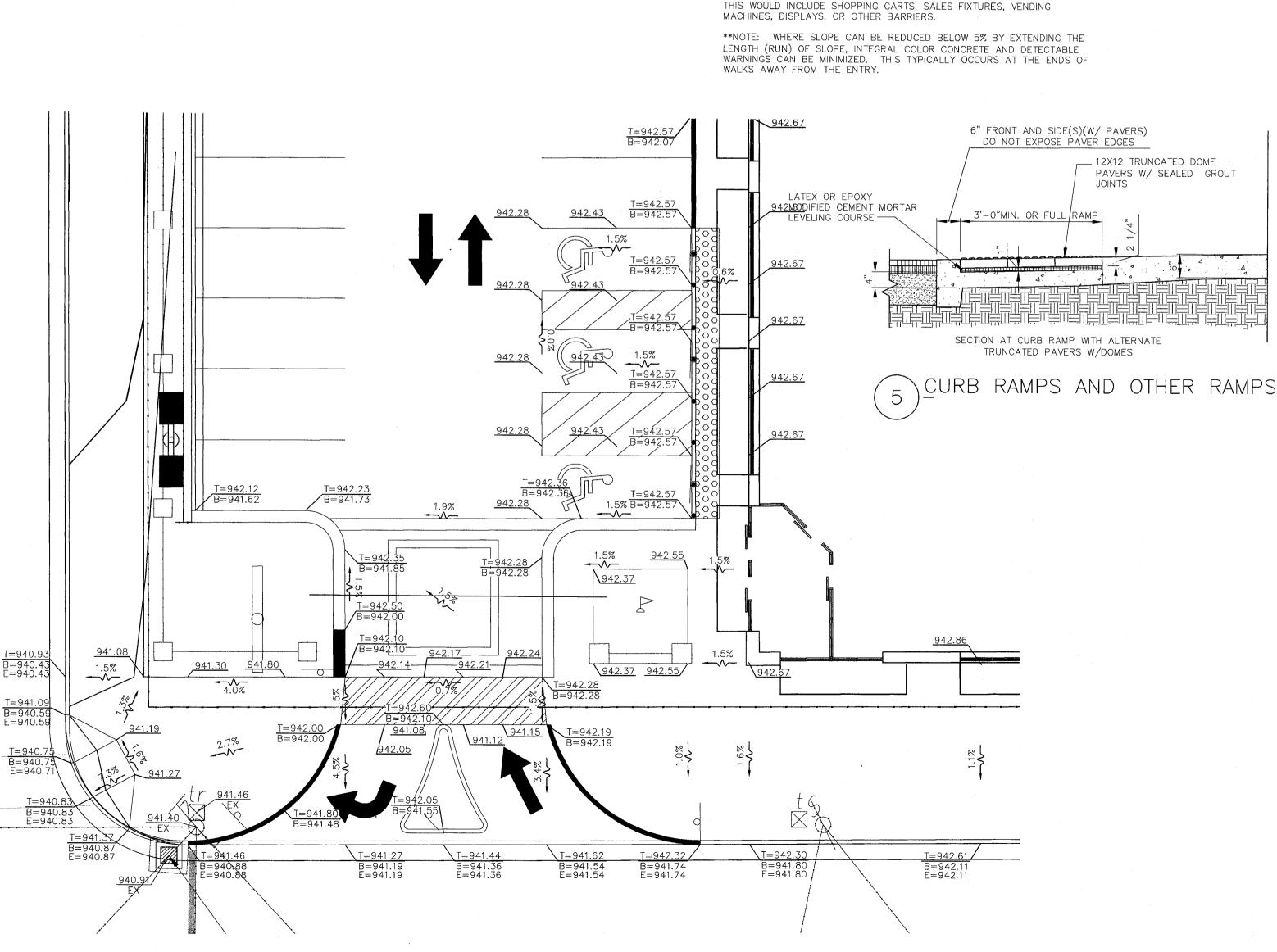


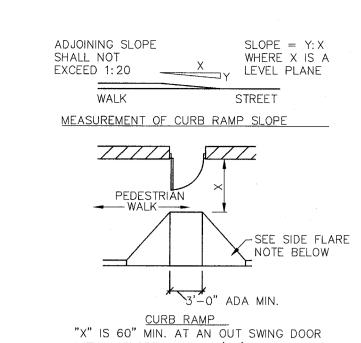












ACCESSIBLE SPACE REQUIREMENTS

ENTRANCE AREA DOORS

REVOLVING DOORS

<u>OBSTRUCTIONS</u>

NUMBER OF

SPACES REQUIRED

ACCESSIBLE PARKING

..2% PLUS 1 FOR EACH 100 OVER 1000

12X12 TRUNCATED DOME

PAVERS W/ SEALED GROUT

TOTAL OFF STREET

PARKING SPACES

PROVIDED

26 TO 50..

101 TO 150.

151 TO 200.

201 TO 300...

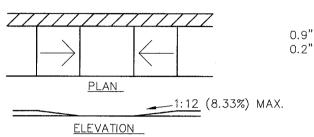
401 TO 500..

501 TO 1000.

OVER 1000..

WITH A SLOPE OF 1:50 (2%) MAXIMUM. LEVEL SURFACE IS PREFÈRED.

SIDE FLARE NOTE: (SEE REFERENCE DIAGRAM ABOVE). SIDE FLARES SHALL HAVE A MAXIMUM SLOPE OF 1:10 (10%). WHERE "X" IS LESS THAN 48", SIDE FLARE SLOPE SHALL BE 1:12 (8.33%) MAXIMUM. WHERE "X" IS LESS THAN 36", WALGREENS PREFERS THE "IN-LINE" RAMP SHOWN BELOW.



NOTES: A CURB RAMP(S) MUST BE PROVIDED ALONG AN ACCESSILBLE PATH FROM THE PARKING LOT TO WALGREENS CURBED SIDEWALK.

"IN-LINE" RAMP

A CURB RAMP(S) MUST ALSO BE PROVIDED IN THE PARKING LOT AT ALL INTERMEDIATE AND PERIMETER CURBS ALONG THE ACCESSIBLE ROUTE CONNECTING TO PUBLIC SIDEWALKS.

A RAMP IS ANY SLOPE GREATER THAN 1:20 (5%) AND SHALL HAVE A MAXIMUM SLOPE OF 1:12 (8.33%). THE MAXIMUM SLOPE IS 1" OF RISE PER FOOT OF DISTANCE TRAVELED. ALL SLOPED AREAS OF THE RAMP ARE TO HAVE AN INTEGRAL RED COLOR.

¢ OF PARKING STALL

ACCESSIBLE PARKING SIGN AND POST (FREESTANDING)

KEYED NOTES STANDARD USDOT R7-8 SIGN (BOTH SIDES-WHERE

APPLICABLE).

APPLICABLE.

6"ø PIPE.

(4) SEALANT.

3 2"X 2" STEEL TUBE EXTENDED INTO CONCRETE FILLED

SUPPLEMENTAL SIGNS,

"VAN ACCESSIBLE" AND/OR \$-FINE AS

 $\langle 5 \rangle$ HSS $6"\phi \times .28"$ THICK PIPE, CONCRETE FILLED. PROVIDE 1/4" WELDED CLOSURE PLATE AT BOTTOM. ALL STEEL TO

BE RUST FREE AND PRIME COATED. BOLLARD TO RECEIVE GRAY POLYETHYLENE COVER (FROM IDEAL SHIELD

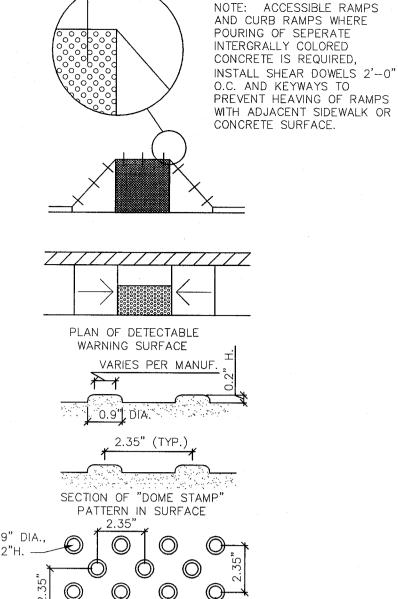
— 313—842—7290).

7 18" DIA. CONCRETE FOOTER BELOW FROST

LINE (4'-0" MIN.).

6 FINISHED GRADE.

THE CLEAR WIDTH OF ANY RAMP IS A MINIMUM OF 36".



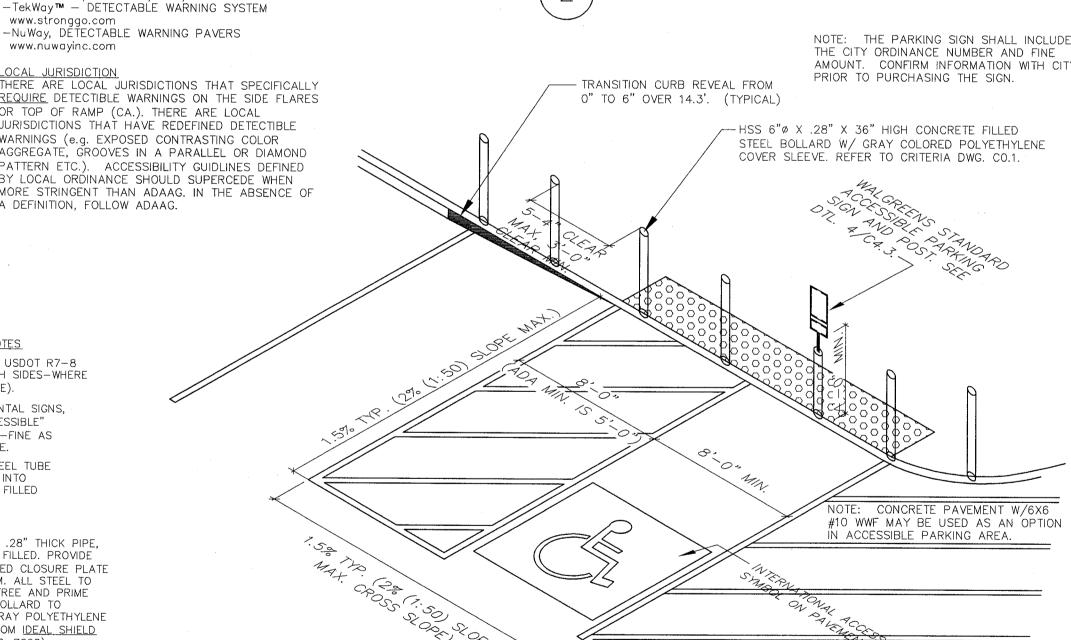
PLAN OF "DOME STAMP" PATTERN IN SURFACE CURB RAMPS HAVE A MAXIMUM RISE OF 6" AND DO NOT REQUIRE HANDRAILS. ANY RAMP WITH GREATER THAN A 6" RISE SHALL HAVE HANDRAILS ON BOTH SIDES AND CURBED EDGE PROTECTION ON BOTH SIDES. EDGE PROTECTION CONSISTS OF CURBS, WALLS, RAILINGS, OR PROJECTING SURFACES THAT PREVENT PEOPLE FROM SLIPPING OFF THE RAMP. HANDRAIL DETAILS SHALL FOLLOW ACCESSIBLE GUIDELINES.

CURB RAMPS MUST HAVE A <u>DETECTABLE WARNING FEATURE</u> EXTENDING THE FULL WIDTH AND DEPTH OF THE RAMP (MID-WALK "IN-LINE" RAMPS ONLY NEED DETECTABLE WARNINGS AT WALK/PARKING TRANSITION). THE DETECTABLE SURFACE MUST CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES, A HEIGHT OF NOMINAL 0.2 INCHES AND A CENTER-TO CENTER SPACING OF NOMINAL 2.35 INCHES. THE TEXTURE OF THE DETECTABLE WARNING FEATURE MUST CONTRAST WITH THE SURROUNDING SURFACES (EITHER

LIGHT-ON-DARK OR DARK-ON-LIGHT). SEE ABOVE. ACCEPTABLE PAVER MANUFACTURERS:
-HANOVER ARCHITECTURAL PRODUCTS, DETECTABLE WARNING PAVERS, www.hanoverpavers.com/html/detectable.html

www.nuwayinc.com HERE ARE LOCAL JURISDICTIONS THAT SPECIFICALLY REQUIRE DETECTIBLE WARNINGS ON THE SIDE FLARES OR TOP OF RAMP (CA.). THERE ARE LOCAL JURISDICTIONS THAT HAVE REDEFINED DETEC WARNINGS (e.g. EXPOSED CONTRASTING COLOR AGGREGATE, GROOVES IN A PARALLEL OR DIAMOND PATTERN ETC.). ACCESSIBILITY GUIDLINES DEFINED BY LOCAL ORDINANCE SHOULD SUPERCEDE WHEN MORE STRINGENT THAN ADAAG. IN THE ABSENCE OF A DEFINITION, FOLLOW ADAAG.

www.stronggo.com



STANDARD ACCESSIBLE DIMENSIONING A U.S. DEPARTMENT OF TRANSPORTATION R7-8 (RESERVED PARKING)

AND SUPPLEMENTAL SIGNS AS NOTED ABOVE MUST BE MOUNTED ON A PERMANENT POST NO LOWER THAN FOUR FEET FROM THE PAVEMENT. THE POST MUST BE MOUNTED IN THE CENTER OF THE 8 FOOT WIDE ACCESSIBLE PARKING SPACE, NO MORE THAN FIVE FEET FROM THE FRONT OF THE PARKING SPACE. SEE ILLUSTRATION ABOVE.

NOTES: EACH ACCESSIBLE PARKING SPACE IS TO BE A MINIMIUM OF 8' WIDE AND HAVE A 96" MINIMIUM ACCESS AISLE FOR VANS OR 60" ACCESS AISLE FOR CARS ADJACENT TO THE SPACE. THE ACCESS AISLE MAY BE ON EITHER THE DRIVER'S SIDE OR THE PASSENGER'S SIDE OF THE ACCESSIBLE SPACE. THIS APPLIES TO 45, 60, AND 90°

ACCESSIBLE PARKING SPACES ARE TO BE LOCATED AS CLOSE TO THE STORE ENTRANCE AS POSSIBLE AND SHALL BE IDENTIFIED WITH A SIGN.

ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH A SLOPE OF NO. MORE THAN 2% (EXAMPLE: 1.92 INCHES VERTICAL IN 8 FEET HORIZONTAL) OR 1:50 IN ALL DIRECTIONS. THIS INCLUDES BOTH "RUNNING SLOPES" AND "CROSS SLOPES".

ACCESSIBLE PARKING—SIZE AND MARKINGS

EACH PARKING SPACE ACCESS AISLE MUST CONNECT TO A COMMON LEVEL WITH AN ACCESSIBLE ROUTE...I.E. EACH ACCESS AISLE NEXT TO A PARKING SPACE MUST HAVE A CURB RAMP AT THE WALGREENS STOREFRONT SIDEWALK OR BLEND TO A LEVEL WALKWAY LEADING TO THE WALGREENS ENTRANCE.

THE ACCESS AISLE SHALL BE DESIGNATED WITH HIGH QUALITY YELLOW DIAGONAL SURFACE PAINT STRIPING RAMPS MUST NOT EXTEND OUT FROM THE CURB INTO THE ACCESS AISLE OF ANY ACCESS PARKING SPACE. ADA ALLOWS TWO PARKING SPACES TO SHARE AN ACCESS AISLE.

ACCESSIBLE PARKING ACCESS AISLES SHALL BE PART OF AN ACCESSIBLE ROUTE TO THE STORE ENTRANCE.

1 1/2" R → - SEE NOTE BELOW USDOT STANDARD R7-8 SIGN \$250 FINE

NOTE (R7-8 SIGN): THIS IS A STANDARD SIGN AND MAY BE ORDERED FROM ANY TRAFFIC SIGN

SUPPLIER BY NUMBER. THE ARROW SHOULD BE OMITTED WHERE THERE IS ONLY ONE SPACE. THE

BY "TIME" SUCH AS 9 AM - 5 PM WHERE A PART-TIME RESTRICTION EXISTS. THE SIGN MUST BE

SUPPLEMENTED WITH A "VAN ACCESSIBLE" SIGN AS APPLICABLE AND/OR AMOUNT OF THE FINE FOR

ILLEGALLY PARKING IN THE RESERVED SPACE(S) A MUNICIPALITY MAY IMPOSE. CONFIRM WITH LOCAL

ARROW MAY ALSO BE MADE TO POINT IN ONLY ONE DIRECTION. THE ARROW MAY ALSO BE REPLACED

ON

0

OU & DeHaven,

WALGREENS
TREET NW AND LINCO

WATER LINE NOTES

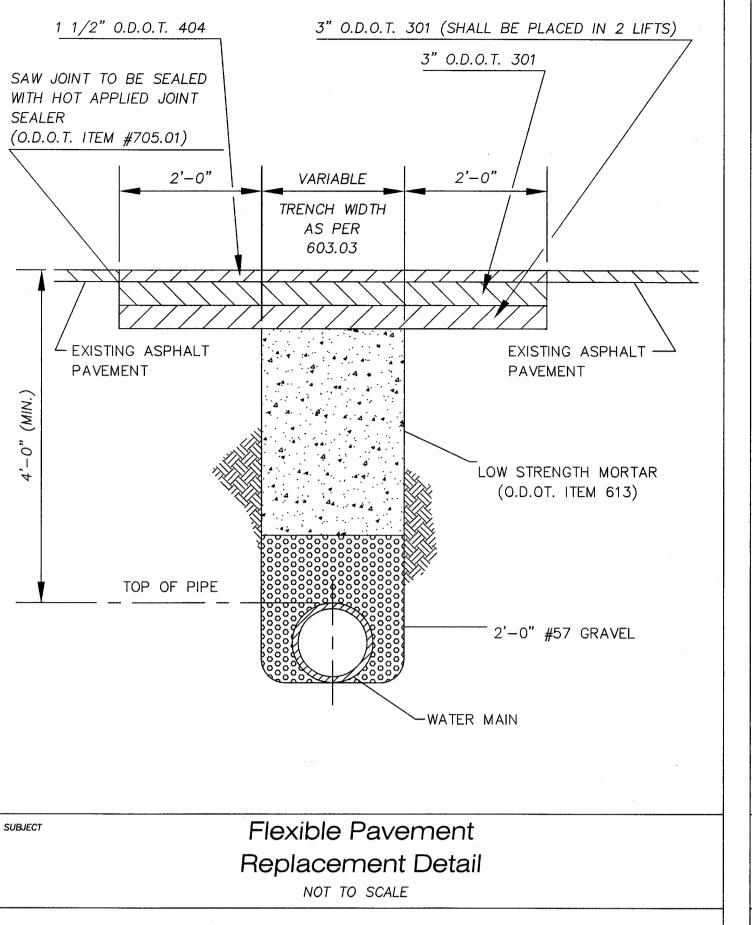
<u>MATERIALS</u>

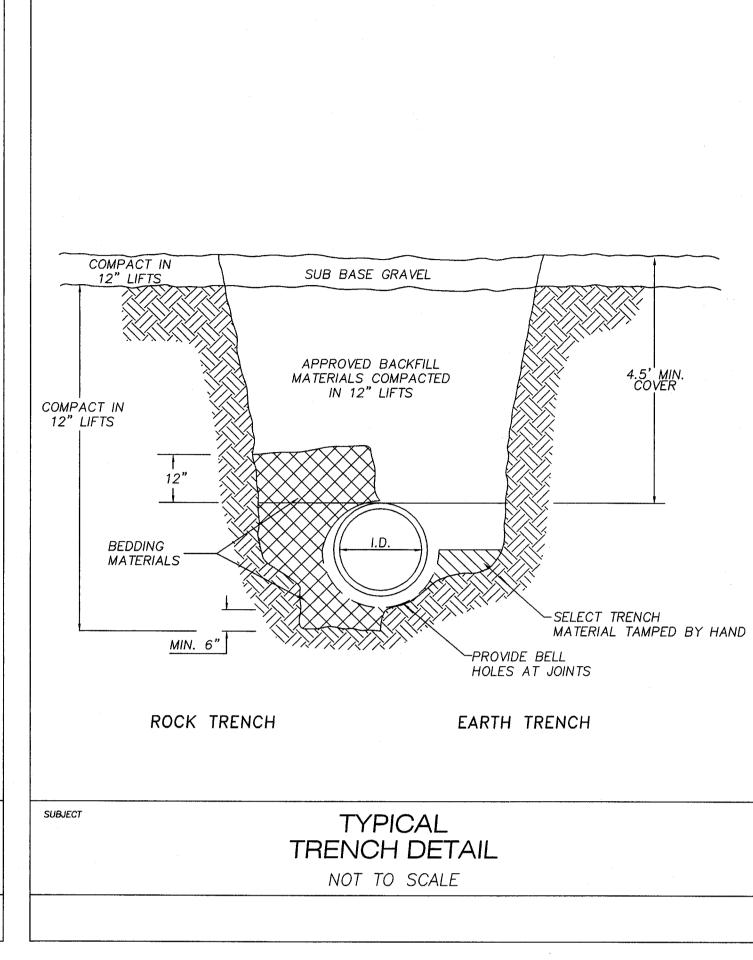
- 1. LINES 4" AND LARGER SHALL BE CLASS 52 DUCTILE IRON PIPE WITH PUSH ON JOINTS PER AWWA C-151, CEMENT-LINED PER AWWA C-104 AND BITUMINOUS COATED.
- 2. GASKET AND LUBRICANTS FOR PUSH ON JOINTS SHALL BE PER AWWA C-111.
- 3. ALL NEW WATER LINES SHALL BE COMPLETELY WRAPPED IN 8 MII THICK POLYETHYLENE ENCASEMENT PER AWWA C-105. NO POLYWRAP SHALL BE INSTALLED UNTIL JUST PRIOR TO PIPE
- 4. FITTINGS SHALL BE FULL-BODIED DUCTILE IRON MECHANICAL JOINT PER AWWA C-110 WITH CEMENT-LINING PER AWWA C-104 AND BITUMINOUS COATING. ALL MECHANICAL JOINTS SHALL HAVE COR-10 NUTS AND BOLTS.
- 5. ALL FITTINGS SHALL HAVE POURED CONCRETE THRUST BLOCKS. ALL VERTICAL BENDS SHALL HAVE POURED CONCRETE THRUST BLOCKS. CONCRETE SHALL NOT COME IN CONTACT WITH THE JOINT OR BOLTS. MECHANICAL RESTRAINED JOINTS MAY BE USED IN ADDITION TO BUT NOT IN LIEU OF
- 6. ALL VALVES 4" THROUGH 12" SHALL BE AWWA CLASS 150 DOUBLE DISC, MECHANICAL JOINT GATE VALVES WITH DUCTILE IRON BODIES. THE VALVES SHALL OPEN COUNTERCLOCKWISE. VALVES SHALL BE AMERICAN DARLING, MUELLER, CLOW, KENNEDY, EAST JORDAN OR APPROVED EQUAL. ALL VALVES MUST HAVE A 3-PIECE VALVE BOX WITH NO. 6 BASE. IF THE TOP OF THE OPERATING NUT FOR ANY VALVE IS MORE THAN 36" BELOW THE FINISHED GRADE, AN EXTENSION STEM SHALL BE PROVIDED TO PLACE THE OPERATING NUT BETWEEN 24" AND 36" OF THE FINISHED
- 7. ALL FIRE HYDRANTS SHALL CONFORM TO AWWA C-502, WITH MECHANICAL JOINT HUBS AND OPEN LEFT (COUNTER CLOCKWISE). HYDRANTS SHALL BE MUELLER SUPER CENTURION MODEL A-423.
- 8. ALL HYDRANTS SHALL HAVE ONE 4" STEAMER CONNECTION WITH 6 THREADS PER INCH AND TWO 2 1/2" HOSE CONNECTIONS WITH NATIONAL STANDARD THREADS.
- 9. ALL HYDRANTS SHALL BE INSTALLED WITH A 6" MECHANICAL JOINT DOUBLE-DISC GATE VALVE AND ONE CUBIC YARD OF #57 BALLAST.
- 10. HYDRANTS SHALL BE PLACED A MINIMUM OF TWO FEET AND MAXIMUM OF TEN FEET FROM THE BACK OF THE CURB OR EDGE OF PAVEMENT. THE MAIN STEAMER NOZZLE SHALL BE TURNED TO FACE THE CLOSEST PAVEMENT AREA.
- 11. FIRE HYDRANTS SHALL BE PAINTED CHROME YELLOW WITH TOPS COLOR CODED BASED ON FLOW CAPACITY.

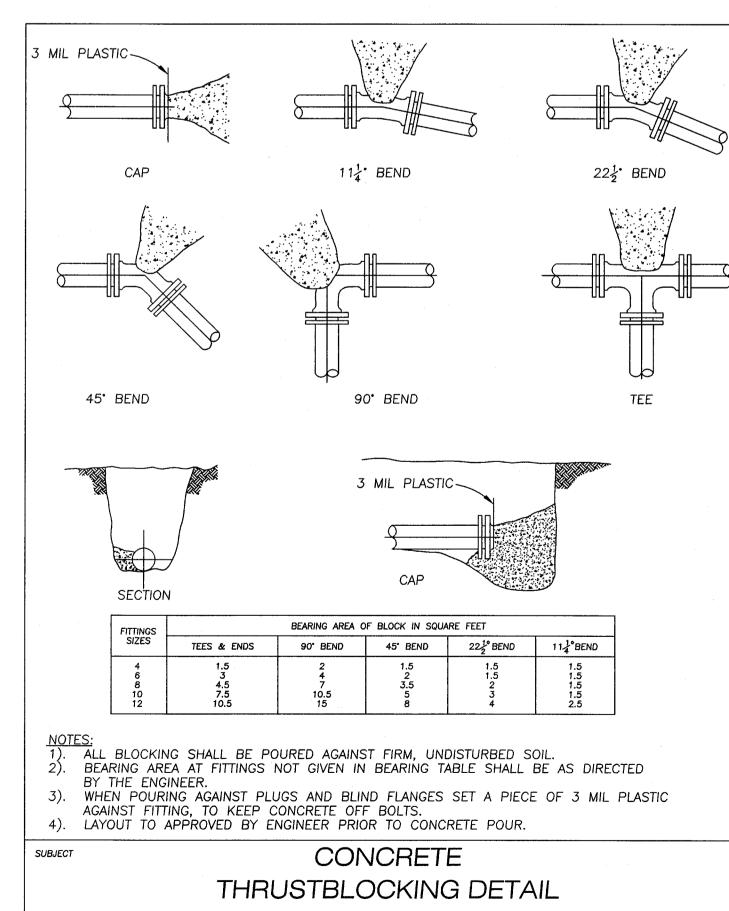
INSTALLATION

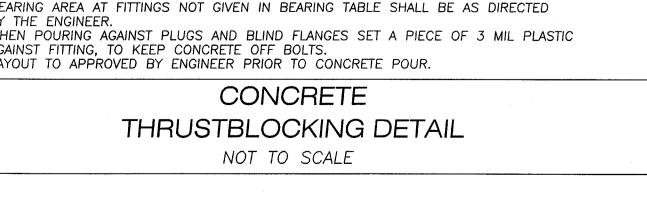
- 12. THE CONTRACTOR SHALL EXPOSE ALL KNOWN OR SUSPECTED UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION, AND SHALL MAKE SUGGESTIONS FOR ADJUSTMENTS IN ELEVATIONS TO PROVIDE SUFFICIENT CLEARANCE BETWEEN THE PROPOSED AND EXISTING UTILITIES.
- 13. WATER LINES MUST BE INSTALLED A MINIMUM OF 4.5' BELOW EXISTING GRADE OR FUTURE ROAD GRADE, WHICHEVER IS DEEPER. FUTURE ROAD CROSS SLOPE AND DITCH RELOCATIONS MUST BE
- 14. WHEREVER POSSIBLE, WATER MAINS SHALL BE DEFLECTED AROUND STRUCTURES WITHOUT THE USE OF SPECIAL FITTINGS AND WITHOUT EXCEEDING 1/2 OF THE MANUFACTURER'S ALLOWABLE JOINT
- 15. PIPES SHALL BE LAID DIRECTLY ON THE TRENCH BOTTOM AFTER IT HAS BEEN GRADED AND TAMPED TO SUPPORT THE PIPE ALONG ITS ENTIRE LENGTH.
- 16. UNSTABLE OR UNSUITABLE MATERIAL ENCOUNTERED AT THE TRENCH BOTTOM, AS DETERMINED BY THE ENGINEER, SHALL BE REMOVED TO A DEPTH SPECIFIED BY THE ENGINEER, AND THE TRENCH REFILLED TO THE PROPOSED GRADE WITH CRUSHED LIMESTONE (304) BEDDING MATERIAL.
- 17. WHEN EXCAVATING THE TRENCH IN ROCK (AS DETERMINED BY THE ENGINEER), THE TRENCH SHALL BE EXCAVATED AN ADDITIONAL SIX INCHES BELOW THE PROPOSED GRADE OF THE BOTTOM OF THE PIPE, AND BROUGHT BACK TO PROPOSED GRADE WITH SAND BEDDING MATERIAL.
- 18. SAND BEDDING SHALL BE PLACED TO AT LEAST 6" ABOVE THE PIPE TO PROTECT THE POLYWRAP.
- 19. SLAG WILL NOT BE PERMITTED FOR USE AS BEDDING OR BACKFILL MATERIAL.
- 20. THE CONTRACTOR SHALL SUPPLY A TEMPORARY SAFE WATER SERVICE TO ANY CUSTOMER THAT WILL HAVE AN INTERRUPTION OF SERVICE DUE TO THIS PROJECT. CONTRACTOR MUST NOTIFY ALL PARTIES 24 HOURS IN ADVANCE OF AN ANTICIPATED INTERRUPTION DUE TO CONSTRUCTION. AQUA OHIO WILL OPERATE ALL VALVES AND DETERMINE THE DATE AND TIME OF ANY WATER TURNOFFS.
- 21. A 10' MINIMUM HORIZONTAL CLEARANCE MUST BE MAINTAINED FROM EDGE OF WATER MAIN PIPE TO THE EDGE OF SANITARY SEWER PIPE.
- 22. AN 18" MINIMUM VERTICAL CLEARANCE MUST BE MAINTAINED FROM EDGE OF WATER MAIN PIPE TO THE EDGE OF ALL SANITARY SEWER PIPE WHERE THEY CROSS.
- 23. A 4' MINIMUM HORIZONTAL CLEARANCE MUST BE MAINTAINED FROM EDGE OF WATER MAIN PIPE TO THE EDGE OF ALL STORM DRAIN PIPE.
- 24. A 12" MINIMUM VERTICAL CLEARANCE MUST BE MAINTAINED FROM EDGE OF ALL WATER MAIN PIPE TO THE EDGE OF ALL PROPOSED STORM DRAINS OR INLET PIPES WHERE THEY CROSS.
- 25. THE PROPOSED FACILITIES SHALL MAINTAIN A MINIMUM 35 PSI PRESSURE DELIVERED TO THE CURB STOP DURING NORMAL OPERATING CONDITIONS.
- 26. WATER BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS. THE WATER SYSTEM MAY GRANT SPECIAL PERMISSION ALLOWING BOOSTER PUMPS FOR BUILDINGS SIX STORIES OR HIGHER.
- 27. ANY EXISTING HYDRANTS, VALVES, VALVE BOXES, METER PITS, SERVICE LINES, CURB BOXES OR WATER MAINS THAT ARE DAMAGED MUST BE ADJUSTED. MOVED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

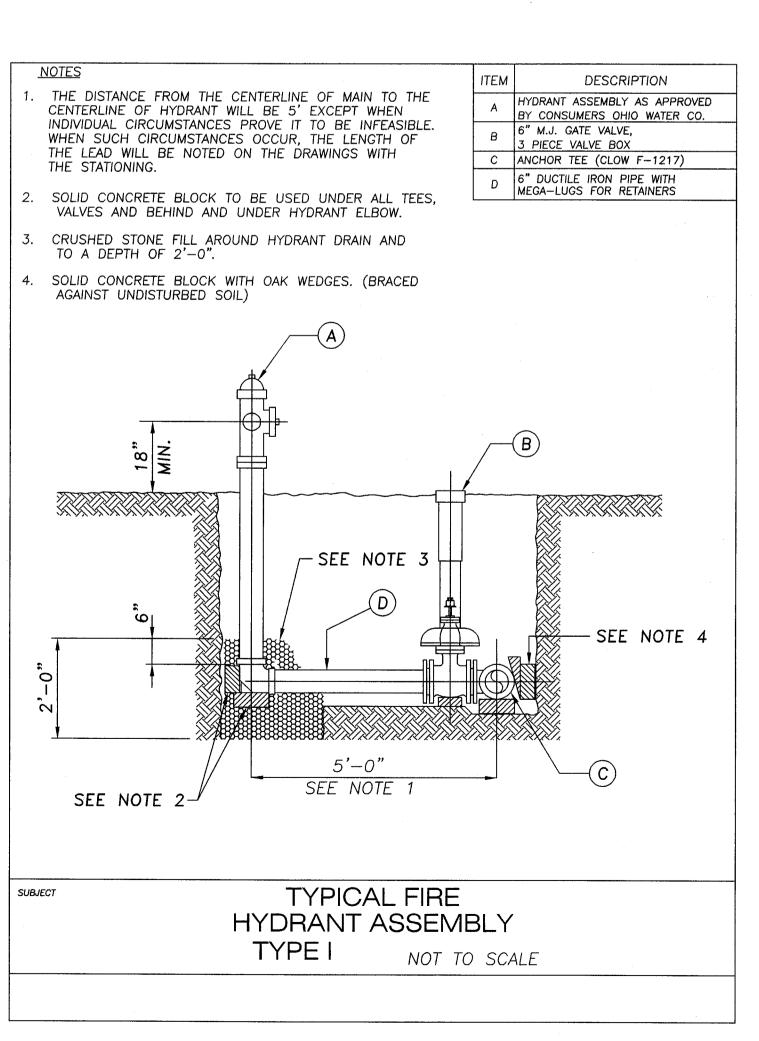
- 28. ALL FIRE HYDRANTS SHALL BE ADJUSTED TO FINAL GRADE AND ROTATED TO THE FINAL ORIENTATION PRIOR TO THE PRESSURE AND LEAKAGE TESTS. WATER LINES SHALL BE PRESSURE AND LEAKAGE TESTED PER AWWA C-600 BEFORE BEING DISINFECTED PER AWWA C-651. TAPS FOR DISINFECTION BY CHLORINATION SHALL BE PROVIDED BY THE CONTRACTOR. AQUA OHIO WILL DETERMINE LOCATIONS AND NUMBER OF TAPS. THE CONTRACTOR SHALL PROVIDE A SIX (6)-FOOT SQUARE SHEETED AND SHORED PIT AT LOCATIONS OF CHLORINATION TAPS.
- 29. SAMPLES FOR BACTERIOLOGICAL TESTING SHALL BE TAKEN BY AQUA OHIO.
- 30. THE CONTRACTOR WILL BE CHARGED FOR TESTING COSTS AFTER A FAILED SET OF TESTS. **SERVICES**
- 31. THE CONTRACTOR WILL MAKE ALL TAPS TO NEW LINES.
- 32. WHEN INSTALLING WATER MAINS ALL KNOWN TAPS SHALL BE MADE ABOVE GROUND PRIOR TO INSTALLING THE POLYWRAP.
- 33. ALL WATER SERVICES SHALL BE 1" MINIMUM. ALL WATER SERVICE MATERIAL FOR SERVICES 2" AND SMALLER WILL BE TYPE 'K' SOFT COPPER PIPING WITH COMPRESSION FITTINGS. CORPORATIONS AND CURB STOPS SHALL BE MUELLER BALL VALVES. NO WATER SERVICE LINES SHALL BE INSTALLED UNTIL AFTER THE MAIN LINE HAS BEEN TESTED AND STERILIZED. ALL TAPS 2" AND SMALLER IN EXISTING WATER MAINS SHALL BE MADE BY AQUA OHIO.
- 34. THE MINIMUM COVER FOR WATER SERVICES WILL BE 4 FEET FROM FINISHED GRADE.
- 35. CURB BOXES SHALL BE PLACED AT THE RIGHT-OF-WAY LINE AND NOT IN A LOCATION OF A PRESENT OR FUTURE SIDEWALK OR DRIVEWAY.
- 36. WHEN A WATER SERVICE CONNECTION IS DISTURBED OR DAMAGED, THE CONTRACTOR WILL REPLACE THE WATER SERVICE WITH ALL NEW COPPER FROM THE CORPORATION TO THE CURB

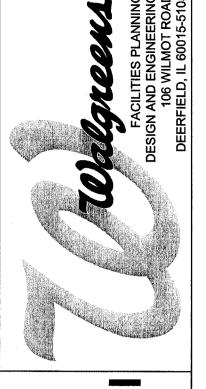




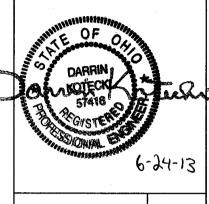








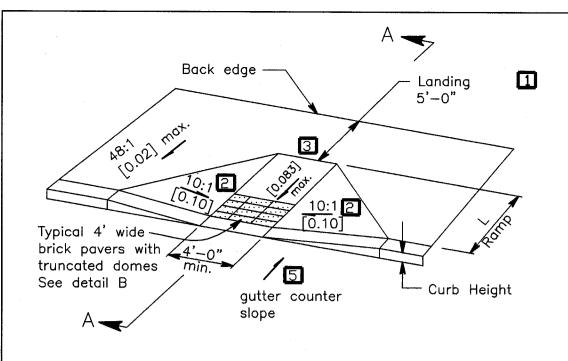


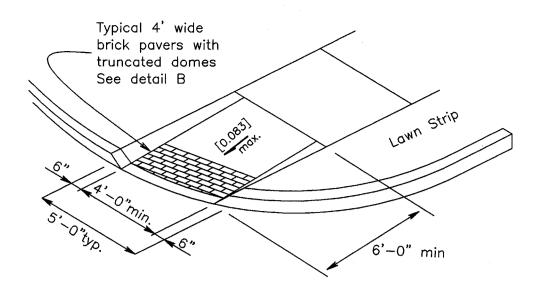


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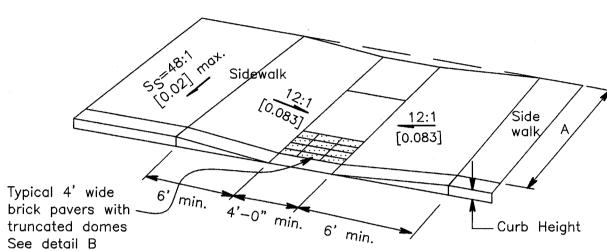
WALGREENS
REET NW AND LINCO





CURB RAMP TYPE B

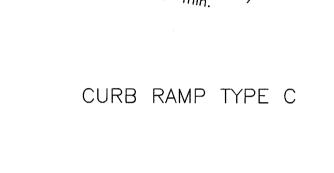
CURB RAMP TYPE A



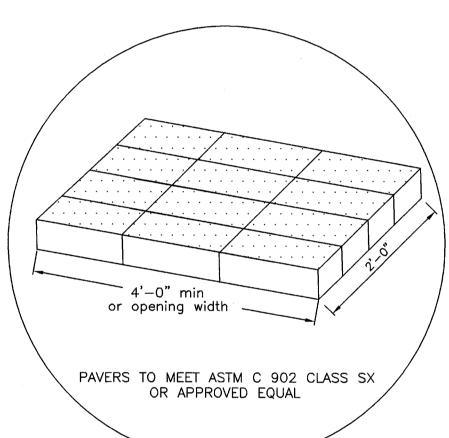
Pavement Existing Surface Existing Detectable Warning Payer 1/2" (13) Latex

Expansion

Modified Cement Mortar



DETAIL A



LEGEND

Gutter counter

- The engineer may permit no less than 3'-0" in existing sidewalks if the landing is unconstrained along the back edge.
- 2 Where landing width has been reduced to 3'-0" the flared sides shall have a maximum slope of 12:1 [0.083].
- The max. slope of the ramp toward the curb is 12:1 [0.083] as related to the horizontal, but the, relative to the existing or proposed walk slope.

The Engineer may allow the following in Historical Areas

- 10:1 [0.10] for a max. rise of 6", 8:1 [0.125] for a max. rise of 3", 6:1 [0.167] over a max. run of 2'-0" for historic areas where a flatter slope is not feasible.
- The minimum length of a Type A or B ramp is 6' from the back of a 6" curb and may be increased where feasible to obtain a flatter ramp slope or to better blend with the walk configuration.
- Gutter counter slopes at the foot of perpendicular curb ramps should not exceed 20:1 [0.05] over a distance of 2'-0" from the curb.

DETAIL B

NOTES:

SURFACE TEXTURE: Texture of concrete surfaces shall be obtained by coarse brooming transverse to the ramp slopes and shall be rougher than the adjacent walk.

TRUNCATED DOMES: Install detectable warnings (truncated domes) for a distance of 24" from the back of curb for the entire width of the ramp opening.

Pavers will meet ASTM C 902 Class SX, Type 1, or C 936, or C 1272 Type R.

ACCEPTABLE MANUFACTURERS AND PRODUCTS ARE AS FOLLOWS:

- Whitacre-Greer Fireproofing Company 1400 South Mahoning Ave.
- Alliance, OH 44601
- 1-800-WG PAVER
- ADA Paver, 4"x8"x2-1/4" Clear Red, Rustic, #30
- 2. Hanover Architectural Products
- 240 Bender Road Hanover, PA 17331
- (717) 637-0500
- Detectable Warning Paver, 12"x12"x2" or 24"x24"x2", Red or Quarry Red
- 3. Endicott Clay Products P.O. Box 17 Fairbury, NE 68352 (402) 729-5804

Handicap Detectable Warning Paver, 4"x8"x2-1/4", Red Blend

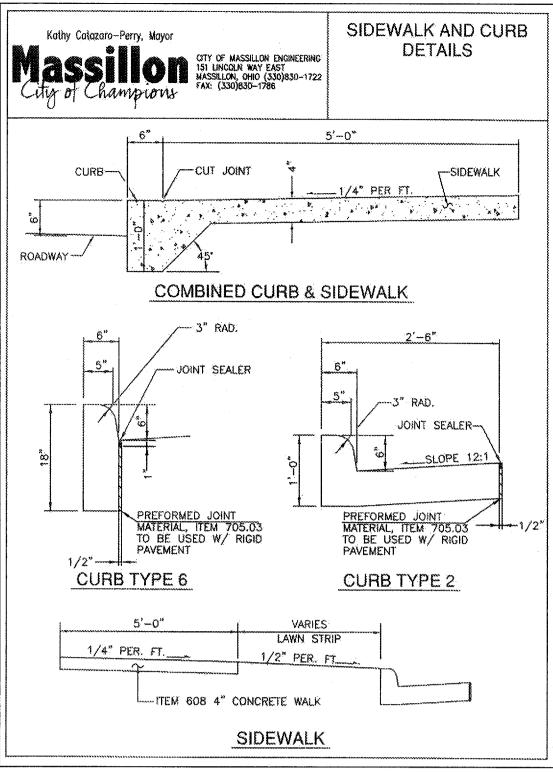
Pavers will be laid on top of a 4" unreinforced concrete base. Setting bed and joints to be mortared in accordance with manufacturer's instruction, or with a maximum 1/2" thick bed of latex modified cement mortar. Mortar joints to a width not greater than 5/32" and not less that 1/16". Pavers shall not be directly touching each other unless they have spacing bars.

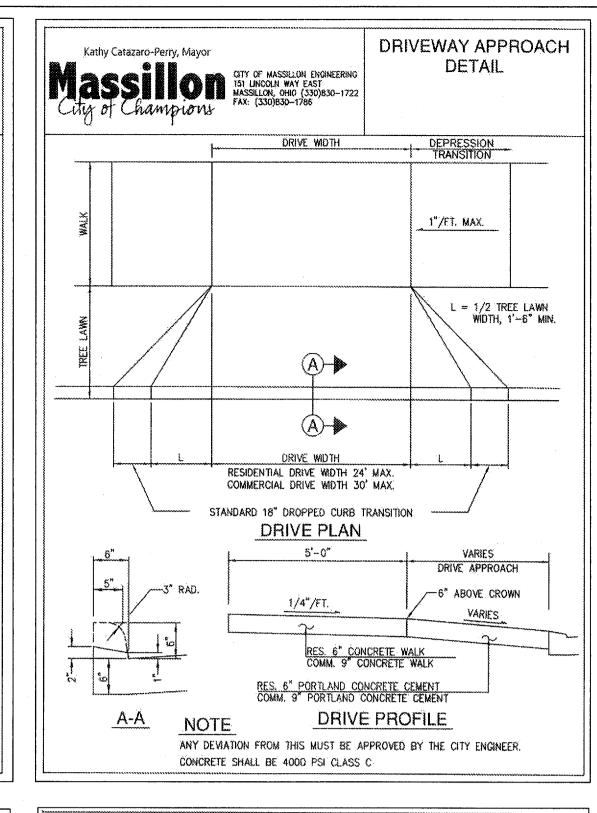
Mortared joints are to be flush with top surface and struck so as to give a smooth surface. Pavers shall be laid such that joints are level with adjoining joints so as to provide a smooth transition from brick to brick and brick to concrete surface.

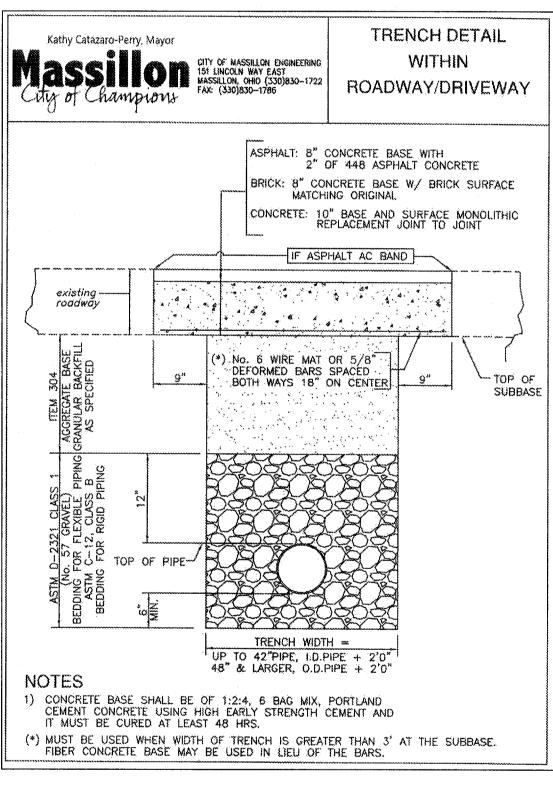
The surface of any two adjacent units should not differ by more than 1/8" in height. Bricks shall be placed in a running bond pattern. Face of all brick shall be clean of cement and protected so as to avoid chipping during construction.

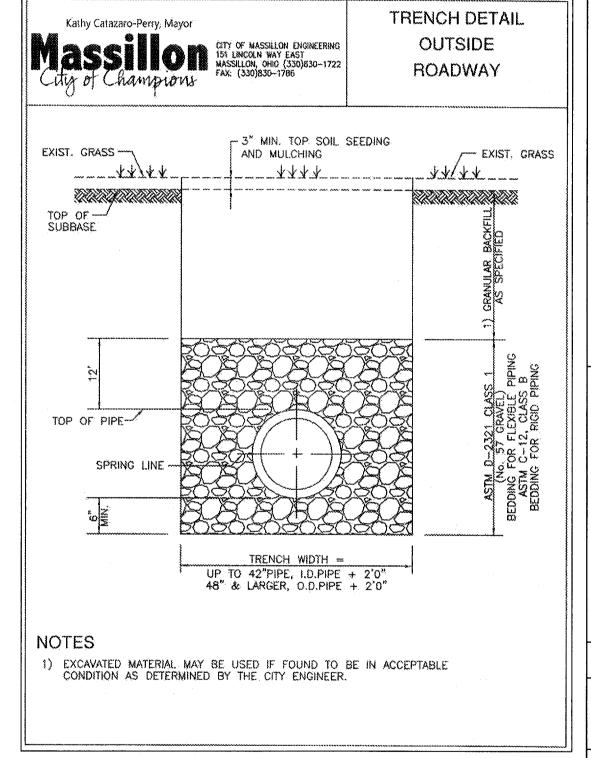
EXPANSION JOINTS: shall be provided in the curb ramp as extensions of walk joints and consistent with item 608.03 requirements for a new concrete walk. A 1/2" Item 705.03 expansion joint filler shall be provided around the edge of ramps built in existing concrete walk. Lines shown on this drawing indicate the ramp edge and slope changes and are not necessarily joint lines.

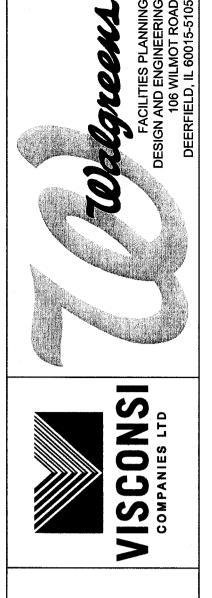
RELIEF JOINTS: must be provide at all points of continuous slope changes in Curb Type A and Type C.





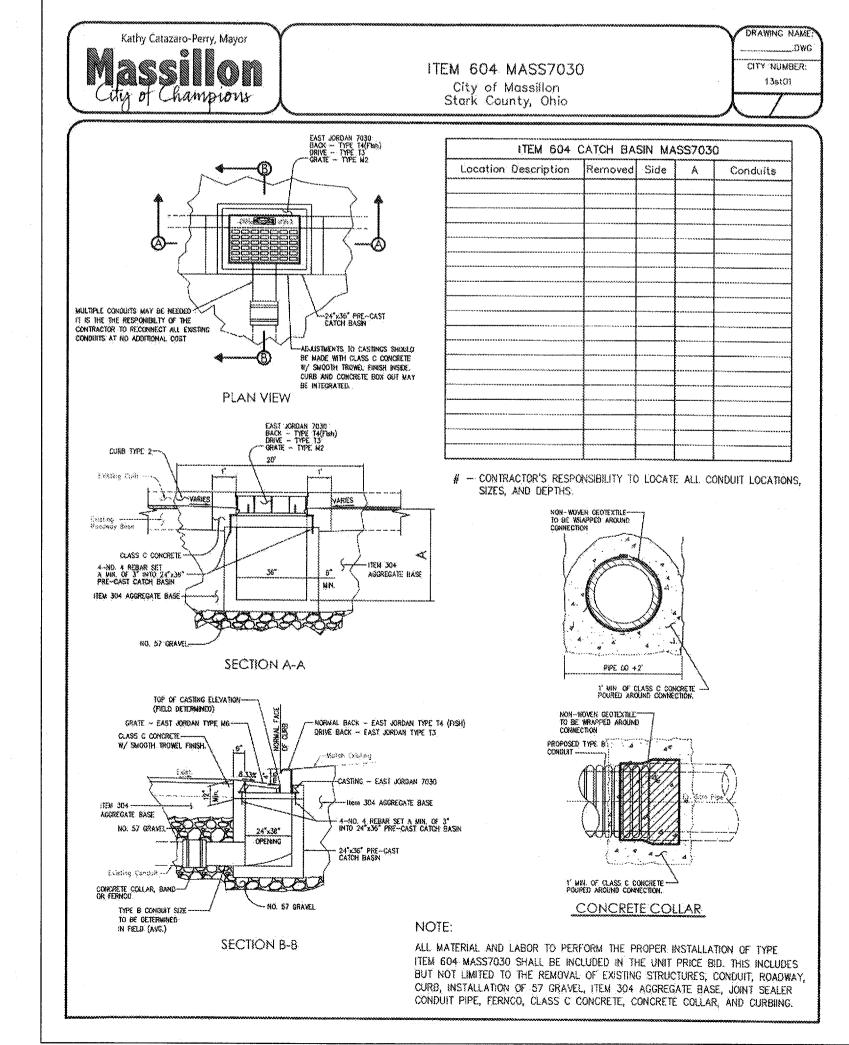






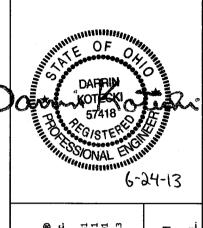
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Kathy Catazaro-P		EM 604 DRAINAGE A	ND SANITARY M. City of Massillon itark County, Ohio		048-R
		n: OR APPROVED EQUAL	ITEM 604 D	RAINAGE MANHOLE	· MASSIOAR_R
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GPD GROUP Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax: 330.572.2101
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IR: 2011095.01
THIS PLAN AND SPECIFICATION WAS
INDER MY DIRECT SUPERVISION AND THAT I

No No	GPD GROUP JOB NUMBER: 2011095.	I HEREBY CERTIFY THAT THIS PLAN A PREPARED BY ME OR UNDER MY DIR AM A DULY REGISTERED ARCHITECT LAWS OF THE STATE OF OHIO AS SIG

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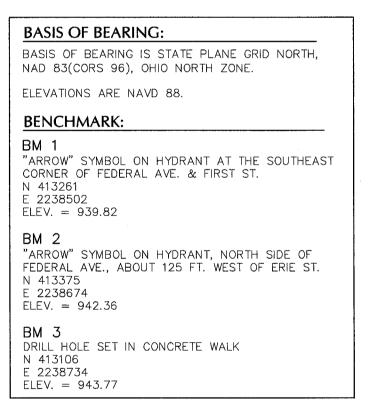
FIRST STREET NW AND LINCOLN WAY

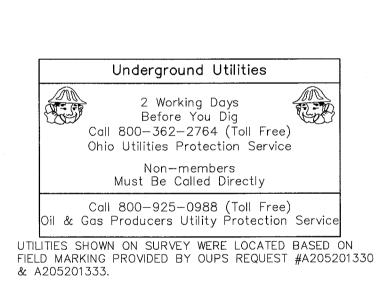
MASSILLON, OHIO

DESIGN - NOT FOR CONSTRUCTION

WALGREENS STORMWATER POLLUTION PREVENTION PLANS FIRST STREET NW AND LINCOLN WAY STARK COUNTY CITY OF MASSILLON, OHIO

3-22-13 JOB # 2011095.01





PROJECT INFORMATION

1. SITE LOCATION:
FIRST STREET NW & LINCOLN WAY
MASSILLON, OH

2. SITE OWNER\POST-CONSTRUCTION CONTACT:
VISCONSI COMPANIES, LTD.
SHAWN JURISCH (216-464-5550)
360 CORPORATE CIRCLE, 30050 CHAGRIN BLVD.
PEPPER PIKE, OH 44124

3. PROFESSIONAL ENGINEER:
GPD GROUP
DARRIN KOTECKI, PE
520 S. MAIN ST., STE. 2531
AKRON, OH 44311
PH: 330-572-2100
FAX: 330-572-2101

PLAN PREPARER:

GPD GROUP

TRAVIS SAUNIER, PE

520 S. MAIN ST., STE. 2531

AKRON, OH 44311

PH: 330-572-2100

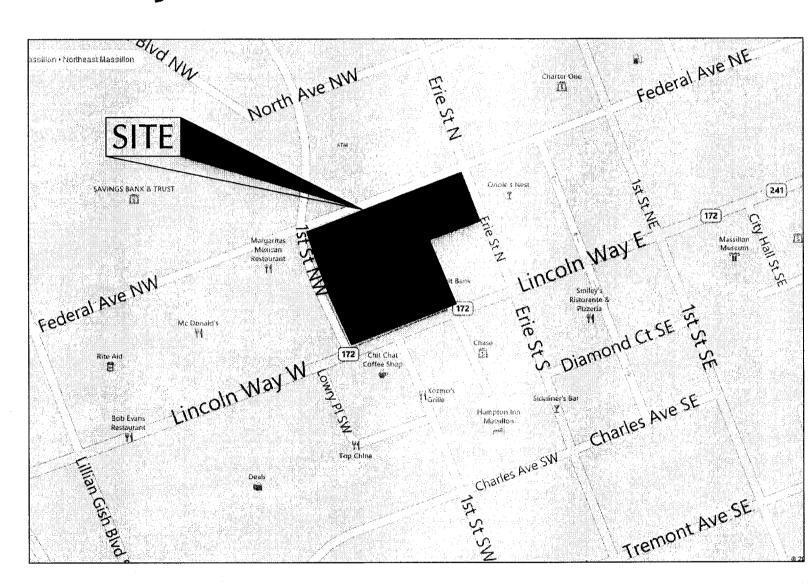
FAX: 330-572-2101

EMAIL: tsaunier@gpdgroup.com

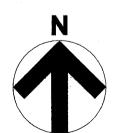
4. PLAN DATE: MARCH 2013

5. CONSTRUCTION START: 6/03/13, COMPLETION: 12/31/14

PROJECT WATERSHED: PUBLIC STORM SEWER TO TUSCARAWAS RIVER



LOCATION MAP

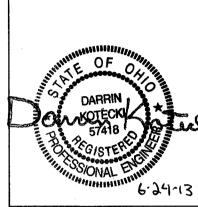


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	CONTACT ADDRESS:	

A PRE-CONSTRUCTION MEETING IS REQUIRED WITH THE STARK COUNTY SOIL & WATER CONSERVATION DISTRICT. THE STARK COUNTY SOIL & WATER CONSERVATION DISTRICT CAN BE CONTACTED AT 330-830-7700.

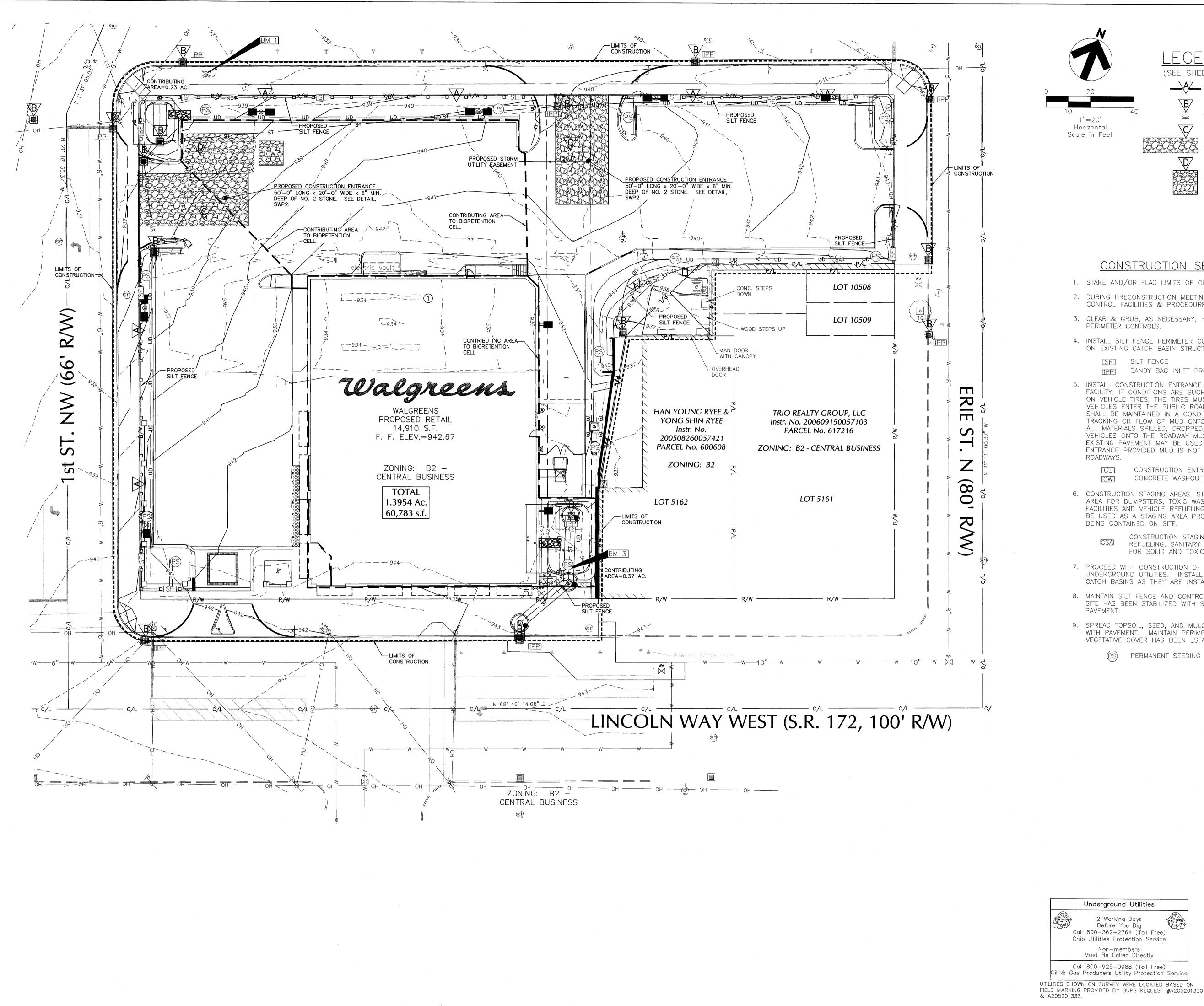


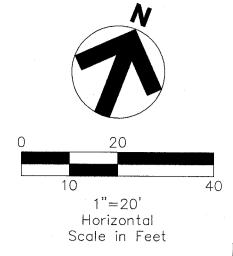




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Akron, OH 44311
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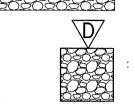
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(SEE SHEET C-001 FOR GENERAL LEGEND)

INLET PROTECTION

SILT FENCE

STABILIZED CONSTRUCTION ENTRANCE



CONCRETE WASHOUT FACILITY

CONSTRUCTION SEQUENCE

- 1. STAKE AND/OR FLAG LIMITS OF CLEARING.
- 2. DURING PRECONSTRUCTION MEETING ALL EROSION & SEDIMENT CONTROL FACILITIES & PROCEDURES SHALL BE DISCUSSED.
- 3. CLEAR & GRUB, AS NECESSARY, FOR INSTALLATION OF PERIMETER CONTROLS.
- 4. INSTALL SILT FENCE PERIMETER CONTROLS, INLET PROTECTION ON EXISTING CATCH BASIN STRUCTURES.

SILT FENCE

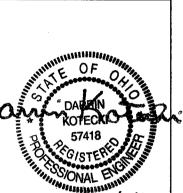
DANDY BAG INLET PROTECTION

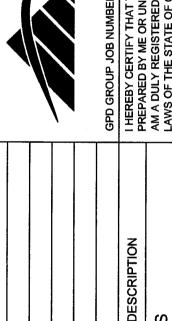
5. INSTALL CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT FACILITY, IF CONDITIONS ARE SUCH THAT MUD IS COLLECTING ON VEHICLE TIRES, THE TIRES MUST BE CLEANED BEFORE THE VEHICLES ENTER THE PUBLIC ROADWAY. THE SITE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING OR FLOW OF MUD ONTO THE PUBLIC RIGHT-OF-WAY ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO THE ROADWAY MUST BE REMOVED PROMPTLY. EXISTING PAVEMENT MAY BE USED AS A CONSTRUCTION ENTRANCE PROVIDED MUD IS NOT TRACKING ONTO ADJACENT ROADWAYS.

> CONSTRUCTION ENTRANCE CW CONCRETE WASHOUT FACILITY

- 6. CONSTRUCTION STAGING AREAS. STAGING AREA SHALL INCLUDE AREA FOR DUMPSTERS, TOXIC WASTE CONTAINERS, SANITARY FACILITIES AND VEHICLE REFUELING. EXISTING PAVEMENT MAY BE USED AS A STAGING AREA PROVIDED MUD AND SEDIMENT IS BEING CONTAINED ON SITE.
 - CONSTRUCTION STAGING AREA FOR VEHICLE REFUELING, SANITARY FACILITIES, AND DUMPSTERS FOR SOLID AND TOXIC WASTES.
- 7. PROCEED WITH CONSTRUCTION OF PROPOSED BUILDING AND UNDERGROUND UTILITIES. INSTALL INLET PROTECTION AROUND CATCH BASINS AS THEY ARE INSTALLED.
- 8. MAINTAIN SILT FENCE AND CONTROL SEDIMENT RUNOFF UNTIL SITE HAS BEEN STABILIZED WITH STONE BASE OR PERMANENT
- 9. SPREAD TOPSOIL, SEED, AND MULCH ALL AREAS NOT STABILIZED WITH PAVEMENT. MAINTAIN PERIMETER CONTROLS UNTIL A 70% VEGETATIVE COVER HAS BEEN ESTABLISHED.
 - (PS) PERMANENT SEEDING & MULCHING







"ARROW" SYMBOL ON HYDRANT AT THE SOUTHEAST CORNER OF FEDERAL AVE. & FIRST ST.

E 2238502 ELEV. = 939.82

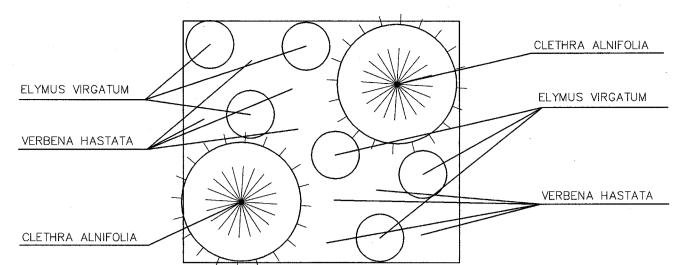
	Underground Utilities
	2 Working Days Before You Dig Call 800-362-2764 (Toll Free) Ohio Utilities Protection Service
	Non-members Must Be Called Directly
Oil &	Call 800-925-0988 (Toll Free) Gas Producers Utility Protection Service

BASIS OF BEARING: BASIS OF BEARING IS STATE PLANE GRID NORTH, NAD 83(CORS 96), OHIO NORTH ZONE. ELEVATIONS ARE NAVD 88.

BENCHMARK:

BM 2 "ARROW" SYMBOL ON HYDRANT, NORTH SIDE OF FEDERAL AVE., ABOUT 125 FT. WEST OF ERIE ST. E 2238674 ELEV. = 942.36

BM 3 DRILL HOLE SET IN CONCRETE WALK N 413106 E 2238734 ELEV. = 943.77



BIORETENTION SPACING DETAIL PLANTS SHALL BE SPACED IN MANOR SHOWN PER 100 SF OR FRACTION THEREOF.

MANHOLE, RISER, CLEANOUT OR OTHER APPURTENANCE.

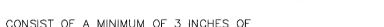
NO PLANTS SHALL BE PLACED WITHIN 3' OF ANY

- 1.) <u>CLETHRA ALNIFOLIA</u> SUMMERSWEET: 2 PLANTS IN 2-GALLON CONTAINERS PER 100 SF
- 2.) <u>ELYMUS VIRGATUM</u> VIRGINIA WILD RYE 6 PLANTS IN 1-GALLON CONTAINERS PER 100 SF
- 3.) <u>VERBENA HASTATA</u> BLUE VERVAIN

TOP OF OVERFLOW RISER _ EJIW 5250 FLAT CASTING WITH 936.50 OPEN GRATE. ELEV.=936.50 6" PONDING SEE GRADING PLAN RIM = 936.50FINISH GRADE ELEV .= 936.00 936.00 TOP OF FILTER MEDIA/PLANTING SOIL 12" PVC INLET PIPE — TOP OF 6" RISER=934.00 -4" SOLID PVC RISER. ATTACH RISER TO BASIN WALL (SEE NOTE 2) INV. 4" UNDERDRAIN=932.50 15" PVC OUTLET PIPE-FILTER FABRIC, AASHTO M-288 6 OZ. TO BE 3" OVER & NON-WOVEN UNDER PIPE MIN. GEOTEXTILE [ASTM D 448 SIZE -4" PERFORATED PVC UNDERDRAIN AT 1% MIN. SLOPE. TOTAL FILTER AREA = 230 SF

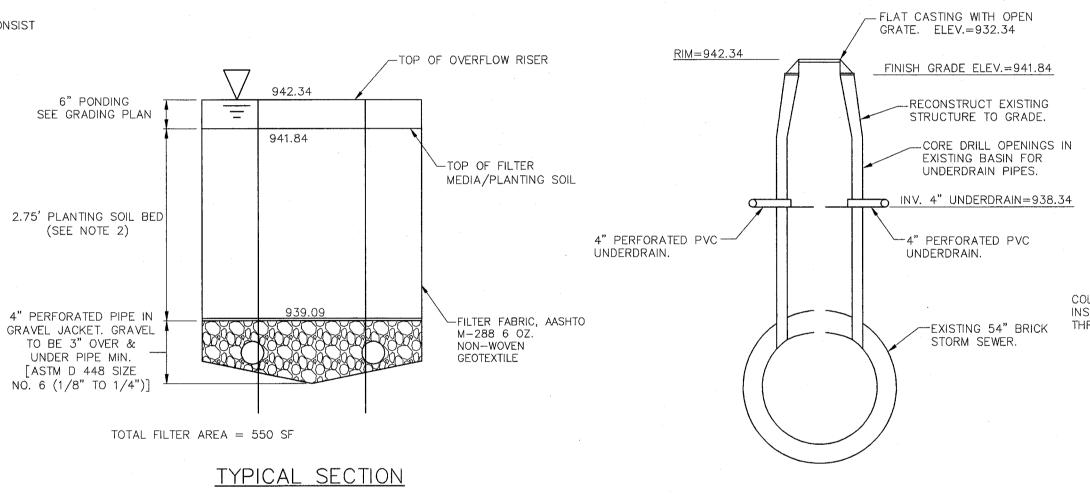
TYPICAL SECTION

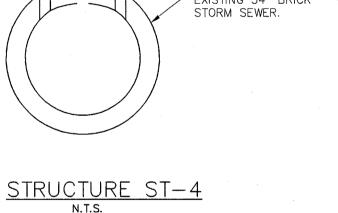
2.75' PLANTING SOIL BED 4" PERFORATED PIPE IN GRAVEL JACKET, GRAVEL NO. 6 (1/8" TO 1/4")

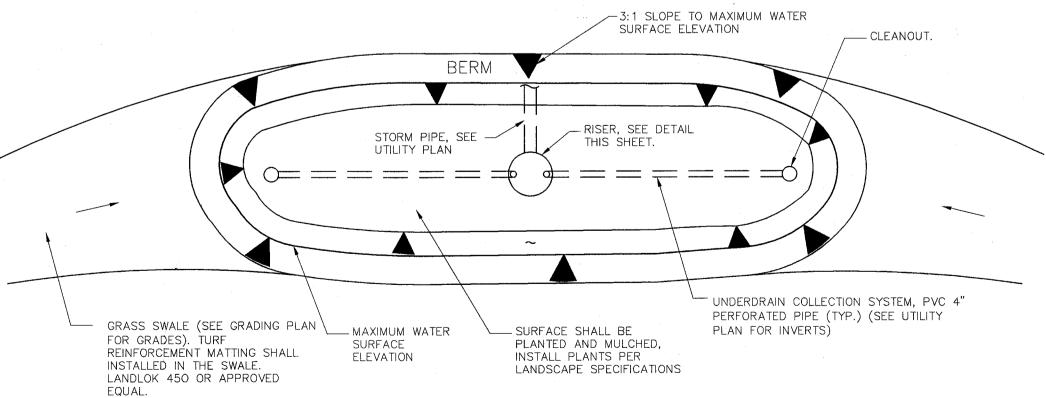


- 1. MULCH. THE MULCH LAYER SHOULD CONSIST OF A MINIMUM OF 3 INCHES OF COMMERCIALLY AVAILABLE COARSE SHREDDED HARDWOOD
- -TEXTURE CLASS: SANDY LOAM OR LOAMY SAND HAVING NO LESS THAN 72% SAND AND NO GREATER THAN 10% CLAY CONSIDERING ONLY THE MINERAL FRACTION OF THE SOIL.
- -ORGANIC MATTER: 5-20%
- -PHOSPHOROUS: SOIL P-INDEX BETWEEN 15 AND 40 -SAND SHALL BE CLEAN AND MEET AASHTO M-6 OR ASTM C-33 WITH A GRAINS SIZE OF 0.02-0.04 INCHES THE SOIL MIX DESIGN SHALL BE SUBMITTED AND APPROVED BY THE ENGINEER BEFORE ORDERING THE MATERIAL.
- 3. FILTER LAYER. THE FILTER LAYER SHALL CONSIST OF A GEOTEXTILE FABRIC MEETING THE FOLLOWING CRITERIA: -MINIMUM FLOW RAT OF 110 GPM PER ASTM 4491 -PUNCTURE STRENGTH OF 125 LBS PER ASTM D-751 -MULLEN BURST STRENGTH OF 400 PSI PER ASTM D-1117

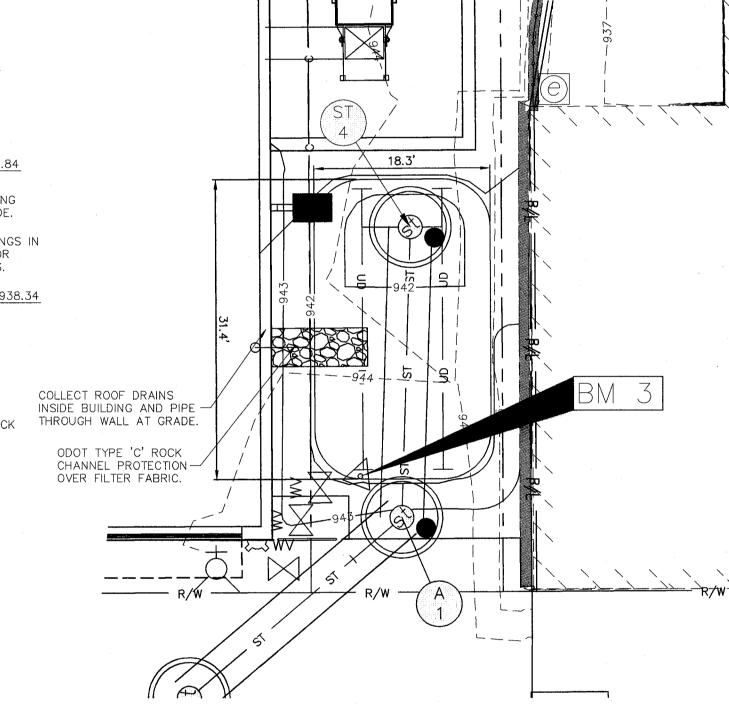
4. GRAVEL LAYER AND UNDERDRAIN SYSTEM. THE GRAVEL LAYER SHALL CONSIST OF A MINIMUM OF 9" OF #57 STONE, WITH A MINIMUM OF 3" ABOVE AND BELOW THE UNDERDRAIN. UNDERDRAIN SHALL BE AS SPECIFIED ON THE







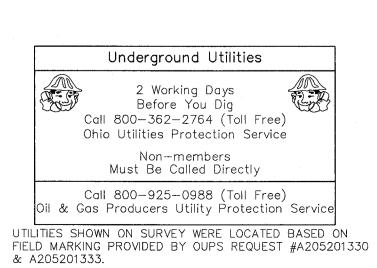
TYPICAL BIORETENTION AREA SCHEMATIC (PLAN)



BASIS OF BEARING: BASIS OF BEARING IS STATE PLANE GRID NORTH, NAD 83(CORS 96), OHIO NORTH ZONE.

BM 3 DRILL HOLE SET IN CONCRETE WALK N 413106 E 2238734 ELEV. = 943.77





ELEVATIONS ARE NAVD 88. **BENCHMARK:** "ARROW" SYMBOL ON HYDRANT AT THE SOUTHEAST CORNER OF FEDERAL AVE. & FIRST ST. N 413261 E 2238502 ELEV. = 939.82BM 2 "ARROW" SYMBOL ON HYDRANT, NORTH SIDE OF FEDERAL AVE., ABOUT 125 FT. WEST OF ERIE ST. N 413375 E 2238674 ELEV. = 942.36

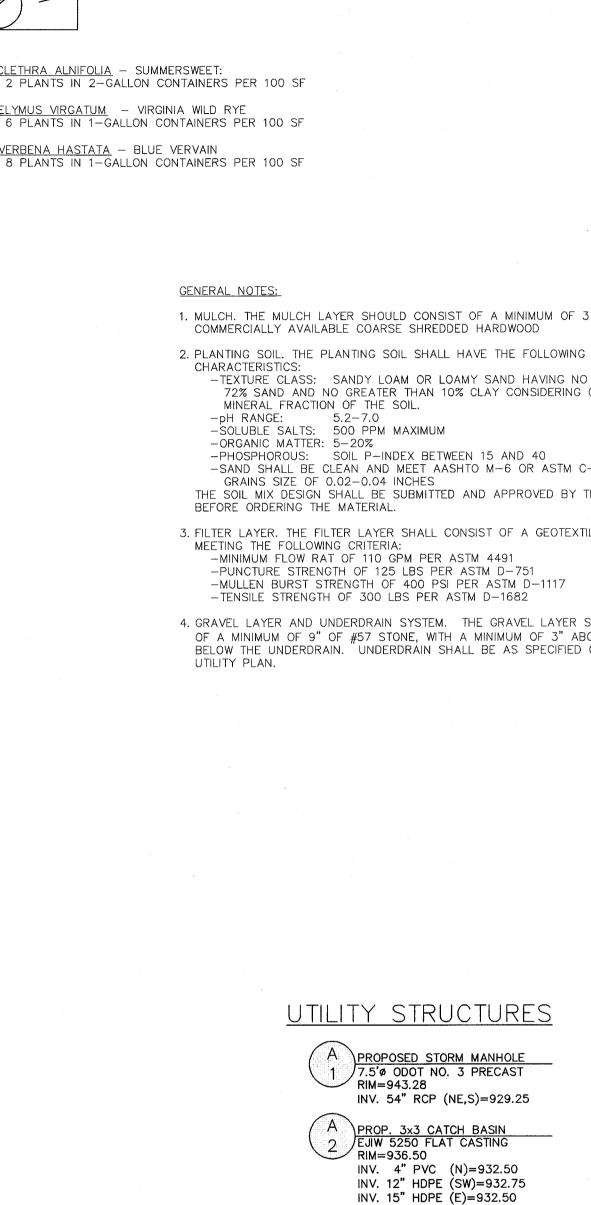
DEPRESSED CURB OPENING

ALLOWING RUNNOFF TO PASS THROUGH CURB AND INTO BASIN.

SWP-3

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ST EXISTING STORM MANHOLE 1 / T/C=943.19 INV. 12" VCP (N)=941.19 INV. 12" VCP (S)=941.19 INV. 12" VCP (W)=940.19 ST EXISTING STORM CATCH BASIN T/C=942.57

BOTTOM OF SUMP=930.50

INV. 4" PVC (S,E)=934.80 INV. 12" HDPE (NE,S)=932.90 BOTTOM OF SUMP=930.90

INV. 4" PVC (S,E)=935.89 INV. 12" HDPE (N)=933.39 BOTTOM OF SUMP=931.39

PROP. 3x3 CATCH BASIN EJIW 5250 FLAT CASTING

RIM=936.80

RIM = 937.89

INVERT DATA

SILTED=936.57 ST EXISTING STORM MANHOLE T/C = 943.12INV. 54" Brick (N)=929.22 INV. 12" VCP (E)=933.82

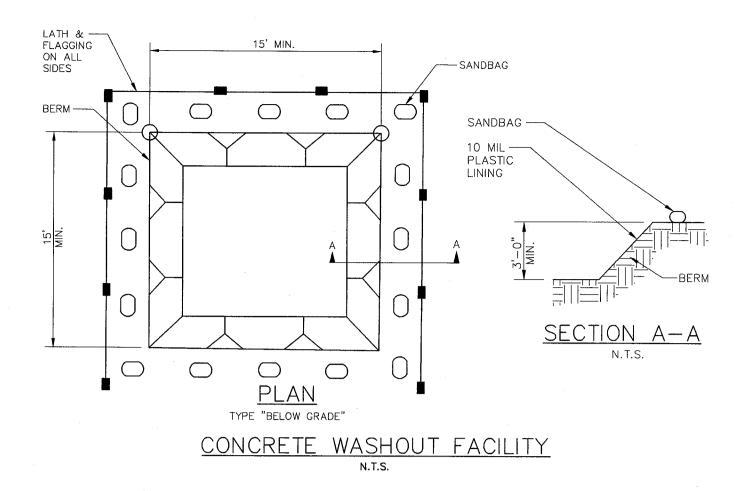
EXISTING STORM MANHOLE BURIED INV. 54" Brick (N,S)=929.27±

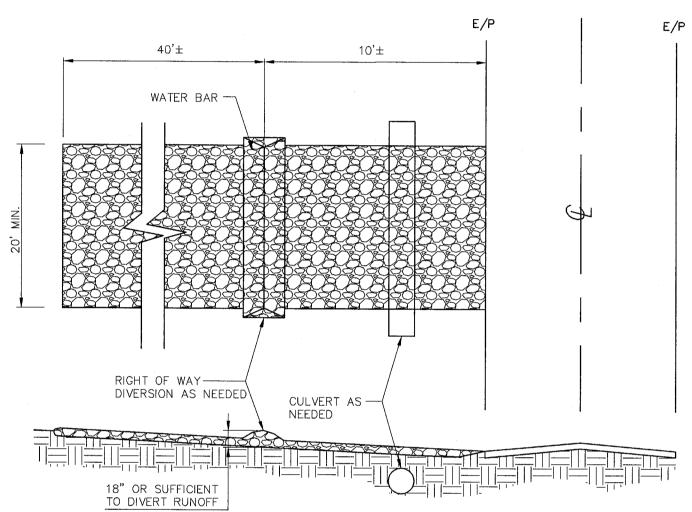
INV. 12" VCP (S)=934.82

INV. 54" Brick (S)=929.22

EXISTING STORM CATCH BASIN T/C = 935.55NV. 12" VCP (W)=932.45

INV. 6" PVC (N)=932.55





- 1. STONE SIZE NO. 2 STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
- 2. THE CONSTRUCTION ENTRANCE SHALL COINCIDE WITH THE PROPOSED DRIVE AS SHOWN ON
- 3. PAVEMENT THICKNESS STONE LAYER SHALL BE 6" THICK FOR STANDARD DUTY ACTIVITY AND 10" THICK FOR HEAVY DUTY ACTIVITY.
- 4. DRIVEWAY WIDTH THE ENTRANCE SHALL BE AT LEAST 20' WIDE. CONTRACTOR SHALL ENSURE ALL VEHICLES UTILIZE THE CONSTRUCTION ENTRANCE UNTIL PAVEMENT IS IN PLACE.
- 5. BEDDING-A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL HAVE A GRAB TENSILE STRENGTH OF AT LEAST 200 LBS. AND A MULLEN BURST STRENGTH OF AT LEAST 190 LBS.
- 6. CULVERT-A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE FROM BEING DIRECTED OUT
- 7. WATER BAR A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
- 8. 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.
- 9. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SHALL BE RESTRICTED FROM MUDDY AREAS.

TEMPORARY STABILIZED CONSTRUCTION ENTRANCE

DANDY BAG DANDY BAG . SECTION A

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

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

> DANDY PRODUCTS INC. (OR EQUAL) 4263 KELNOR WAY GROVE CITY, PHONE (800) 591-2284 FAX (614) 873-4546

DANDY BAG DETAIL

SILT FENCE

- 1. THE HEIGHT OF THE SILT FENCE SHALL NOT EXCEED 36 INCHES.
- 2. THE FILTER FABRIC SHALL BE WOVEN FABRIC AND SHALL BE PURCHASED IN A CONTINUOUS ROLL TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP. AND SECURELY SEALED.
- 3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM 24 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6
- 4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 6 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
- 5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- 6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE. AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO THE EXISTING TREES.
- 7. WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM NO. 6
- 8. THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER FABRIC.
- 9. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
- 10. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- 11. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
- 12. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE
- 13. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.
- 14. WHERE SILT FENCE IS SHOWN AT THE BACK OF PROPOSED CURB, SILT FENCE SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION AND BACKFILL OF CURB.

1. IN ORDER TO CONTROL SEDIMENT POLLUTION OF WATER RESOURCES THE OWNER OR PERSON RESPONSIBLE FOR THE DEVELOPMENT AREA SHALL USE CONSERVATION PLANNING AND PRACTICES TO MAINTAIN THE LEVEL OF CONSERVATION ESTABLISHED BY THE FOLLOWING STANDARDS:

SEDIMENT & EROSION CONTROL CRITERIA

- 2. TIMING OF SEDIMENT-TAPPING PRACTICES. SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL THROUGHOUT EARTH-DISTURBING ACTIVITY.
- 3. SETTLING FACILITIES, PERIMETER CONTROLS, AND OTHER PRACTICES INTENDED TO TRAP SEDIMENT SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN SEVEN DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UPSLOPE DEVELOPMENT AREA IS RESTABILIZED.
- 4. STABILIZATION OF STRIPPED AREA. STRIPPED AREAS SHALL HAVE SOIL STABILIZATION APPLIED WITHIN SEVEN DAYS IF THEY ARE TO REMAIN DORMANT FOR MORE THAN TWENTY-ONE DAYS. PERMANENT OR TEMPORARY
- 5. SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE, AND SHALL ALSO BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS WHICH MAY NOT BE AT FINAL GRADE, BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN TWENTY-ONE DAYS.
- 6. SEDIMENT BARRIER. STREET FLOW RUNOFF FROM STRIPPED AREAS SHALL BE FILTERED OR DIVERTED TO A SETTLING FACILITY.
- 7. STORM SEWER INLET PROTECTION. ALL STORM SEWER INLETS WHICH ACCEPT WATER RUNOFF FROM THE DEVELOPMENT AREA SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER WILL NOT ENTER THE STORM SEWER SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT, UNLESS THE STORM SEWER SYSTEM DRAINS
- 9. CONSTRUCTION ACCESS ROUTES. MEASURES SHALL BE TAKEN TO PREVENT SOIL TRANSPORT ONTO SURFACES WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, OR ONTO PUBLIC ROADS.
- 10. SLOUGHING AND DUMPING : A. NO SOIL, ROCK, DEBRIS, OR ANY OTHER MATERIAL SHALL BE DUMPED OR PLACED INTO A WATER RESOURCE OR INTO SUCH PROXIMITY THAT IT MAY READILY SLOUGH, SLIP, OR ERODE INTO A WATER RESOURCE UNLESS SUCH
 - APPLICABLE, THE U.S. ARMY CORPS OF ENGINEERS, FOR SUCH PURPOSES AS, BUT NOT LIMITED TO CONSTRUCTION BRIDGES, CULVERTS, AND EROSION CONTROL STRUCTURES. B. UNSTABLE SOILS PRONE TO SLIPPING OR LANDSLIDING SHALL NOT BE GRADED, EXCAVATED, FILLED OR HAVE LOADS IMPOSED UPON THEM UNLESS THE WORK IS DONE IN ACCORDANCE WITH A QUALIFIED PROFESSIONAL ENGINEER'S

RECOMMENDATIONS TO CORRECT, ELIMINATE, OR ADEQUATELY ADDRESS THE

DUMPING OR PLACING IS AUTHORIZED BY THE CITY ENGINEER AND, WHEN

11. CUT AND FILL SLOPES. CUT AND FILL SLOPES SHALL BE CONSTRUCTED IN A MANNER WHICH WILL MINIMIZE EROSION. CONSIDERATION SHALL BE GIVEN TO THE LENGTH AND STEEPNESS OF THE SLOPE, SOIL TYPE, UPSLOPE DRAINAGE AREA, GROUNDWATER CONDITIONS, AND SLOPE STABILIZATION.

PROBLEMS.

- 12. STABILIZATION OF OUTFALLS AND CHANNELS. OUTFALLS AND CONSTRUCTION OF MODIFIED CHANNELS SHALL BE DESIGNED AND CONSTRUCTED TO WITHSTAND THE EXPECTED VELOCITY OF FLOW FROM A POST-DEVELOPMENT, TEN-YEAR FREQUENCY STORM WITHOUT
- 13. ESTABLISHMENT OF PERMANENT VEGETATION. A PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A 70% MINIMUM VEGETATIVE COVER IS ACHIEVED WHICH. IN THE OPINION OF THE APPROVING AGENCY, PROVIDES ADEQUATE COVER AND IS MATURE ENOUGH TO CONTROL SOIL EROSION SATISFACTORILY AND TO SURVIVE ADVERSE WEATHER CONDITIONS
- 14. DISPOSITION OF TEMPORARY PRACTICES. ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE DISPOSED OF WITHIN THIRTY DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY PRACTICES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE APPROVING AGENCY. TRAPPED SEDIMENT SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION.
- 15. MAINTENANCE. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE DESIGNED AND CONSTRUCTED TO MINIMIZE MAINTENANCE REQUIREMENTS. THEY SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. THE PERSON OR ENTITY RESPONSIBLE FOR THE CONTINUED MAINTENANCE OF PERMANENT EROSION CONTROLS SHALL BE IDENTIFIED TO THE SATISFACTION OF THE PLAN-APPROVING AUTHORITY AND IDENTIFIED BY THE SUBDIVIDER'S AGREEMENT.
- 16. THE COST FOR TEMPORARY CHANNELS, SEDIMENT DAMS AND OTHER APPURTENANT EARTH MOVING OPERATIONS SHALL BE INCLUDED IN THE PRICE BID FOR EARTHWORK

-2"x4" WOOD RAIL (FOR INLET SEDIMENT FILTER ONLY) TOP OF FABRIC -2"x2" WOOD FENCE POST ∠ODOT ITEM 712.09, TYPE C. -COMPACTED BACKFILL -SUBGRADE INLET SIDE NOTE: TOE OF FABRIC AT OUTSIDE LIMITS OF FENCING SHALL BE AT LEAST AS HIGH AS THE CENTER TOP OF FABRIC

SILT FENCE DETAIL

NOTE: WHEN USED FOR INLET. SEDIMENT FILTER CREATE A FRAME USING 2"x4" RAILS CONNECTING THE TOPS OF THE FOUR WOOD POSTS.

SEDIMENT & EROSION CONTROL GENERAL NOTES

- 1. ALL WORK SPECIFIED AS A/AN ODOT ITEM SHALL BE GOVERNED BY THE CURRENT STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATION HANDBOOK, IT IS THE CONTRACTOR'S RESPONSIBILITY TO POSSESS AND TO BE FAMILIAR WITH
- 2. THIS CONTRACT DRAWING SHALL BE MADE AVAILABLE ON SITE AT ALL TIMES AND PRESENTED UPON REQUEST. IF UNFORESEEN STORM WATER POLLUTION PREVENTION IS ENCOUNTERED, ADDITIONAL STORM WATER POLLUTION PREVENTION (SWPP) MEASURES MAY BE REQUESTED BY THE OWNER. COUNTY ENGINEER, PROJECT ENGINEER OR SOIL CONSERVATION SERVICE REPRESENTATIVE AT ANYTIME. SUCH REQUESTS SHALL BE IMPLEMENTED IMMEDIATELY AT CONTRACTOR'S EXPENSE.
- 3. ALL STORM WATER POLLUTION PREVENTION ITEMS SHALL BE INSTALLED AS SHOWN OR NOTED ON THIS SHEET.
- 4. PLANT TEMPORARY SEEDING AND MULCHING IN ALL AREAS THAT SHALL BE INACTIVE FOR 14 DAYS OR MORE. ALL DISTURBED AND ERODED EARTH SHALL BE REGRADED AND SEEDED WITHIN 7 DAYS WITH SEEDING, AS DEFINED ABOVE AND AS SHOWN ON THE TABLE BELOW, T ESTABLISH STABILITY AND PROVIDE SEDIMENT CONTROL. WHERE POSSIBLE, TEMPORARY SEEDING GROWTH SHALL NOT BE MOWED UNTIL IT HAS GONE TO SEED FOR 1 YEAR.
- 5. PERMANENT VEGETATION SHALL BE INSTALLED WITHIN 7 DAYS AT THE COMPLETION OF ANY GRADED AREAS, WEATHER PERMITTING.
- 6. AT SUCH TIME ROUGH GRADING OF THE SITE IS COMPLETE AND DRAINAGE DIVERTS TO INLETS. INLET SEDIMENT FILTERS SHALL BE INSTALLED AT ALL INLET STRUCTURES TO KEEP PIPING SYSTEMS FREE OF SILTATION.
- . SILT BARRIERS SHALL BE INSTALLED AROUND ALL EXISTING OR NEW STORM INLETS, CATCH BASINS, YARD DRAINS. INSTALL ROCK CHECK DAMS FOR HEADWALL INLETS FOR STORM WATER POLLUTION PREVENTION.
- 8. STORM WATER POLLUTION PREVENTION MEASURES SHALL BE INSTALLED AROUND ALL DIRT OR TOPSOIL STOCKPILES AND OTHER TEMPORARILY DISTURBED AREAS AS SHOWN ON THESE PLANS
- 9. CONTRACTOR SHALL INSPECT ALL SWPP MEASURES DAILY AND REPAIR AS NECESSARY TO PREVENT EROSION. SILTATION SHALL BE REMOVED FROM AREAS WHERE FAILURES HAVE OCCURRED AND CORRECTIVE ACTION TAKEN WITHIN 24 HOURS TO MAINTAIN ALL SWPP.
- 10. SILT BARRIERS, CONSTRUCTION ENTRANCES, AND SILT FENCES SHALL REMAIN IN PLACE UNTIL A VEGETATIVE COVER OF AT LEAST 70% HAS BEEN OBTAINED AND/OR PAVING OPERATIONS ARE COMPLETE. CONTRACTOR SHALL KEEP SILT FROM ENTERING ANY STORM DRAINAGE SYSTEM. ONCE SITE HAS BEEN COMPLETELY STABILIZED, ANY SILT IN PIPES AND DRAINAGE SWALES SHALL BE REMOVED WITHIN 10 DAYS.
- 11. TEMPORARY SEDIMENTATION AND STORM WATER POLLUTION PREVENTION MEASURES MUST BE INSPECTED AND LOGGED BY THE CONTRACTOR FOR INSPECTION, LOGGING SHALL BE WEEKLY AND
- 12. UTILITY COMPANIES MUST COMPLY WITH ALL STORM WATER POLLUTION PREVENTION MEASURES AS DEFINED ON THE STORM WATER POLLUTION PREVENTION PLANS, DETAILS AND NOTES.
- 13. THE TOTAL AREA OF DISTURBANCE FOR THIS PROJECT IS 1.40 ACRES.

AND AS DIRECTED BY THE ENGINEER.

- 14. ALL EXISTING WATER COURSES WITHIN THE PROJECT LIMITS SHALL BE TEMPORARILY PROTECTED DURING LAND CLEARING AND GRADING OPERATIONS. SOILS WITHIN 50 FEET OF SAID WATER COURSES SHALL BE STABILIZED WITHIN 2 DAYS OF THE INITIAL CLEARING / GRADING OPERATION AS SHOWN ON PLANS.
- 15. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 7 DAYS OF FINAL GRADING.
- 16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL SEDIMENTATION AND STORM WATER POLLUTION PREVENTION ITEMS AT ALL TIMES.
- 17. ALL STORM WATER POLLUTION PREVENTION PRACTICES WILL BE INSTALLED BEFORE ANY OTHER EARTH MOVING OCCURS
- 18. THE FOLLOWING STORM WATER POLLUTION PREVENTION AND SEDIMENT CONTROL MEASURES WILL 18.A. CONSTRUCTION ENTRANCE

18.B. SILT FENCE 18.C. SILT BARIERS

- 19. EXCESS SPOIL MATERIALS WILL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF SITE. THE CONTRACTOR REMOVING THE SPOILS WILL BE RESPONSIBLE FOR ENSURING THAT PROPER PERMITS ARE OBTAINED AND THAT EROSION CONTROL MEASURERS, TEMPORARY AND PERMANENT, ARE INSTALLED AS REQUIRED.
- 20. THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING BORROW MATERIALS AS REQUIRED FROM A SUITABLE OFF-SITE SOURCE AS REQUIRED. THE CONTRACTOR OBTAINING THE BORROW MATERIAL WILL BE RESPONSIBLE FOR ENSURING THAT PROPER PERMITS ARE OBTAINED AND THAT EROSION CONTROL MEASURERS, TEMPORARY AND PERMANENT, ARE INSTALLED AS
- 21. ANY DISCHARGE OF PETROLEUM, PETROLEUM PRODUCTS, TOXIC, OR HAZARDOUS WASTE OF LESS THAN 25 GALLONS ONTO A PERVIOUS SURFACE SHALL BE LEGALLY REMOVED AND PROPERLY TREATED OR PROPERLY DISPOSED OF, OR OTHERWISE REMEDIATED, SO THAT NO CONTAMINATION FROM THE DISCHARGE REMAINS ON-SITE.
- 22. IN THE EVENT OF A LARGE SPILL (25 OR MORE GALLONS) OF PETROLEUM, PETROLEUM PRODUCTS, TOXIC, OR HAZARDOUS WASTE THE CONTRACTOR MUST CONTACT THE OHIO EPA (AT 1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE (LEPC) WITHIN 30 MINUTES OF A SPILL OF 25 OR MORE GALLONS.
- 23. THE SEDIMENT BASINS/TRAPS SHALL BE CLEANED OUT WHEN SEDIMENT LEVELS ACCUMULATE TO THE DESIGN DEPTH OF THE SEDIMENT STORAGE (SETTLING) ZONE.
- 24. ALL PERIMETER CONTROLS AND SEDIMENT BASINS MUST BE INSTALLED WITHIN 7 DAYS OF THE COMMENCEMENT OF GRUBBING ACTIVITIES AND PRIOR TO GRADING THE AREAS THEY WILL
- 25. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING BORROW AND SPOIL AREAS FOR THE PROJECT AS REQUIRED. BORROW AND SPOIL AREAS WHERE SOIL IS DEPOSITED OR OBTAINED MUST BE COVERED UNDER THEIR OWN NOI AND ASSOCIATED NPDES PERMIT. ALL REQUIREMENTS FOR EROSION CONTROL MEASURERS INCLUDING SILT FENCE, TEMPORARY SEEDING, CONSTRUCTION ENTRANCE, ETC. APPLY TO BORROW AND SPOIL AREAS.
- 26. OTHER BEST MANAGEMENT PRACTICES (BMPs) MAY BE NEEDED DUE TO FIELD OR ENVIRONMENTAL CONDITIONS

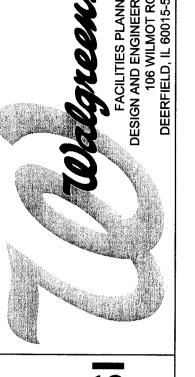
CITY OF MASSILLON NOTE:

DEVELOPER ADDRESS

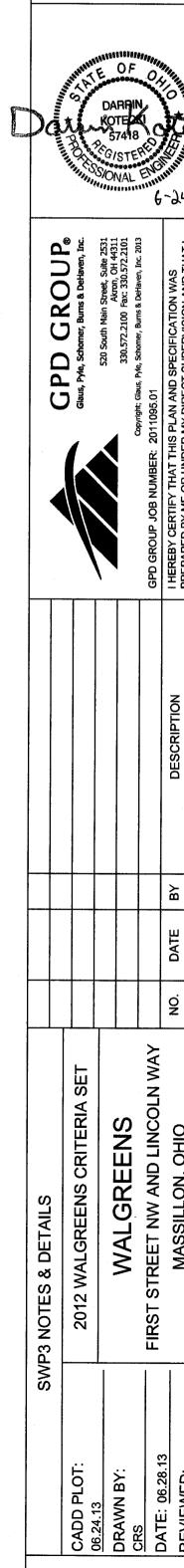
THE CONTRACTOR SHALL PREVENT AND/OR REDUCE AND CONTROL SOIL EROSION RESULTING FROM THE PROPOSED IMPROVEMENTS. THE USE OF SILT FENCING, JUTE MATTING, TEMPORARY SEEDING, SILT CHECKS, INLET PROTECTION AROUND ALL CATCH BASINS, STABILIZED CONSTRUCTION ENTRANCE(S), ETC. WILL BE REQUIRED. SEDIMENT CONTROL STRUCTURES/DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL RAINWATER AND LAND DEVELOPMENT - OHIO'S STANDARDS FOR STORM WATER MANAGEMENT. LAND DEVELOPMENT AND URBAN STREAM PROTECTION. SEDIM CONTROL DEVICES MUST BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUED INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS SET FORTH ON THE APPROVED STORM WATER POLLUTION PREVENTION PLAN IF APPLICABLE, OR AS DETAILED ON THE CONSTRUCTION PLANS, AS SPECIFIED BY THE CITY OF MASSILLON.

SITE DESCRIPTION SUBDIVISION () COMMERCIAL (X) RE RESIDENTIAL () P.U.D. () OTHER ()			TOTAL A PRE-DE' POST-DI AREA TO	AREA (V. RUI EV. RU BE I	NOFF C	COMMERCI. 1.40 AC. 85 81 1.40 AC. 1.18 AC.
SOIL TYPES:			PRIOR L. RECEIVIN		JSE TER BODY	COMMERCI. SEE BELO
Ur Urb	an land	100%	HSG	G - D		
		F. 414-12				- MA
SITE LOCATION IN					NGITUDE: \	W 81°.52434
SITE LOCATION IN CITY OF MASSILLON CITY, VILLAGE, TOWNSHI		_ATITUDE: N STARK COUNTY		LO OHIO STATE	NGITUDE: V	W 81°.52434
CITY OF MASSILLON	P	STARK		OHIO STATE		
CITY OF MASSILLON CITY, VILLAGE, TOWNSHI	P PUBLIC STORM S	STARK COUNTY EWER WHICH		OHIO STATE		
CITY OF MASSILLON CITY, VILLAGE, TOWNSHI SITE DRAINS TO A	P PUBLIC STORM S MMEDIATE RECEIVING	STARK COUNTY EWER WHICH WATER(S)	DRAINS TO	OHIO STATE THE		
CITY OF MASSILLON CITY, VILLAGE, TOWNSHI SITE DRAINS TO A NAME OF WATERSHED/H	P PUBLIC STORM S MMEDIATE RECEIVING	STARK COUNTY EWER WHICH WATER(S)	DRAINS TO	OHIO STATE THE	TUSCARAWA:	
CITY OF MASSILLON CITY, VILLAGE, TOWNSHI SITE DRAINS TO A NAME OF WATERSHED/II N.E. CORNER OF FI	P PUBLIC STORM S MMEDIATE RECEIVING RST ST. NW & LI	STARK COUNTY EWER WHICH WATER(S)	DRAINS TO	OHIO STATE THE	TUSCARAWA:	S RIVER









Specifications

Permanent Seeding

2. The following methods may be used for "Dormant

seeding rates by 50% for this type of seeding.

• From October 1 through November 20, prepare the seed-

bed, add the required amounts of lime and fertilizer, then

mulch and anchor. After November 20, and before March

tions permit, prepare the seedbed, lime and fertilize, apply

the selected seed mixture, mulch and anchor. Increase

packer seeder, or hydro-seeder (slurry may include seed

ing operations with a cultipacker, roller, or light drag. On

sloping land, seeding operations should be on the contour

the seeding rates by 50% for this type of seeding. Apply seed uniformly with a cyclone seeder, drill, culti-

 Where feasible, except when a cultipacker type seeder is used, the seedbed should be firmed following seed-

seeding. Dormant seeding shall be mulched. 100%

Straw—If straw is used it shall be unrotted small-grain

straw applied at the rate of 2 tons per acre or 90 pounds (two to three bales) per 1,000-sq. ft. The mulch shall be

spread uniformly by hand or mechanically applied so the

soil surface is covered. For uniform distribution of hand-

spread mulch, divide area into approximately 1.000-sq.-

ft. sections and spread two 45-lb. bales of straw in each

• Hydroseeders—If wood cellulose fiber is used, it shall be

sion control mattings or blankets applied according to

manufacturer's recommendations or wood chips applied

applied at 2,000 lb./ac. or 46 lb./1,000 sq. ft.

Other—Other acceptable mulches include rolled ero-

of the ground surface shall be covered with an

and fertilizer) on a firm, moist seedbed.

where feasible.

approved material.

at 6 tons per acre.

15, broadcast the selected seed mixture. Increase the

Site Preparation

- 1. Subsoiler, plow, or other implement shall be used to reduce soil compaction and allow maximum infiltration. (Maximizing infiltration will help control both runoff rate and water quality.) Subsoiling should be done when the soil moisture is low enough to allow the soil to crack or fracture. Subsoiling shall not be done on slip-prone areas where soil preparation should be limited to what is neces- • From November 20 through March 15, when soil condisary for establishing vegetation.
- 2. The site shall be graded as needed to permit the use of conventional equipment for seedbed preparation and
- 3. Topsoil shall be applied where needed to establish

Seedbed Preparation

- 1. Lime—Agricultural ground limestone shall be applied to acid soil as recommended by a soil test. In lieu of a soil test, lime shall be applied at the rate of 100 pounds per 1,000-sq. ft. or 2 tons per acre.
- 2. Fertilizer—Fertilizer shall be applied as recommended by a soil test. In place of a soil test, fertilizer shall be applied 1. Mulch material shall be applied immediately after at a rate of 25 pounds per 1,000-sq. ft. or 1000 pounds per acre of a 10-10-10 or 12-12-12 analyses.
- 3. The lime and fertilizer shall be worked into the soil with a disk harrow, spring-tooth harrow, or other suitable field 2. Materials implement to a depth of 3 inches. On sloping land, the soil shall be worked on the contour.

Seeding Dates and Soil Conditions

Seeding should be done March 1 to May 31 or August 1 to September 30. If seeding occurs outside of the abovespecified dates, additional mulch and irrigation may be required to ensure a minimum of 80% germination. Tillage for seedbed preparation should be done when the soil is dry enough to crumble and not form ribbons when compressed by hand. For winter seeding, see the following section on dormant seeding.

Dormant Seedings

by wind or water.

- Seedings should not be made from October 1 through November 20. During this period, the seeds are likely to germinate but probably will not be able to survive
- 3. Straw and Mulch Anchoring Methods
- Mechanical—A disk, crimper, or similar type tool shall be set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but, generally, be left longer than 6 inches.
- Mulch Netting—Netting shall be used according to the manufacturer's recommendations. Netting may be necessary to hold mulch in place in areas of concentrated runoff Permanent seeding shall include irrigation to establish and on critical slopes.
- · Asphalt Emulsion—Asphalt shall be applied as recommended by the manufacture or at the rate of 160 gallons
- Synthetic Binders—Synthetic binders such as Acrylic DLR (Agri-Tac), DCA-70, Petroset, Terra Tack or equivalent may Straw mulch shall be anchored immediately to minimize loss be used at rates specified by the manufacturer.
 - Wood Cellulose Fiber—Wood cellulose fiber shall be applied at a net dry weight of 750 pounds per acre. The wood cellulose fiber shall be mixed with water with the mixture containing a maximum of 50 pounds cellulose per 100 gallons of water.

vegetation during dry weather or on adverse site conditions, which require adequate moisture for seed germination and plant growth.

Irrigation rates shall be monitored to prevent erosion and damage to seeded areas from excessive runoff.

Table 7.10.2 Permanent Seeding

Note: Other approved seed species may be substituted.

Seed Mix	See	ding Rate	Madaa
OCCU IVIIX	Lbs./acre	Lbs./1,000 Sq. Feet	Notes:
		General Use	
Creeping Red Fescue Domestic Ryegrass Kentucky Bluegrass	20-40 10-20 20-40	1/2-1 1/4-1/2 1/2-1	For close mowing & for waterways with <2.0 ft/sec velocity
Tail Fescue	40-50	1-1 1/4	
Turf-type (dwarf) Fescue	90	2 1/4	
	S	teep Banks or Cut Slopes	
Tall Fescue	40-50	1-1 1/4	
Crown Vetch Tall Fescue	10-20 20-30	1/4-1/2 1/2-3/4	Do not seed later than August
Flat Pea Tall Fescue	20-25 20-30	1/2-3/4 1/2-3/4	Do not seed later than August
		load Ditches and Swales	
Tall Fescue	40-50	1-11/4	
Turf-type (Dwarf) Fescue Kentucky Bluegrass	90 5	2 1/4 0.1	
		Lawns	
Kentucky Bluegrass Perennial Ryegrass	100-120	2 2	
Kentucky Bluegrass Creeping Red Fescue	100-120	2 1-1/2	For shaded areas

Specifications

Temporary Seeding

Table 7.8.1 Temporary Seeding Species Selection

Seeding Dates	Species	145./1000 ft2	Lb/Acre
March 1 to August 15	Oats	3	128 (4 Bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Perennial Ryegrass	1	40
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Annual Ryegrass	1.25	55
	Perennial Ryegrass	3.25	142
	Creeping Red Fescue	0.4	17
	Kentucky Bluegrass	0.4	17
	Oats	3	128 (3 bushel)
	Tall Fescue	1	40 `
	Annual Ryegrass	1	40
August 16th to November	Rye	3	112 (2 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Wheat	3	120 (2 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Perennial Rye	1	40
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Annual Ryegrass	1.25	40
	Perennial Ryegrass	3.25	40
	Creeping Red Fescue	0.4	40
	Kentucky Bluegrass	0.4	
November 1 to Feb. 29	Use mulch only or dormant see	dina	

 Structural erosion and sediment control practices such as diversions and sediment traps shall be installed and stabilized with temporary seeding prior to grading the rest of the construction site.

Note: Other approved species may be substituted.

- 2. Temporary seed shall be applied between construction operations on soil that will not be graded or reworked for 21 days or greater. These idle areas shall be seeded within 7 days after grading.
- 3. The seedbed should be pulverized and loose to ensure the success of establishing vegetation. Temporary seeding should not be postponed if ideal seedbed preparation is not possible.
- 4. Soil Amendments—Temporary vegetation seeding rates shall establish adequate stands of vegetation, which may require the use of soil amendments. Base rates for lime and fertilizer shall be used.
- 5. Seeding Method—Seed shall be applied uniformly with a cyclone spreader, drill, cultipacker seeder, or hydroseeder. When feasible, seed that has been broadcast shall be covered by raking or dragging and then lightly tamped into place using a roller or cultipacker. If hydroseeding is used, the seed and fertilizer will be mixed on-site and the seeding shall be done immediately and without interruption.

Mulching Temporary Seeding

1. Applications of temporary seeding shall include mulch, which shall be applied during or immediately after seeding. Seedings made during optimum seeding dates on favorable, very flat soil conditions may not need mulch to achieve adequate stabilization.

2. Materials:

- Straw---If straw is used, it shall be unrotted small-grain straw applied at a rate of 2 tons per acre or 90 lbs./ 1,000 sq. ft. (2-3 bales)
- Hvdroseeders—If wood cellulose fiber is used, it shall be used at 2000 lbs./ ac. or 46 lb./ 1.000-sq.-ft.
- Other—Other acceptable mulches include mulch mattings applied according to manufacturer's recommendations or wood chips applied at 6 ton/ ac.

3. Straw Mulch shall be anchored immediately to minimize loss by wind or water. Anchoring methods:

set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but left to a length of approximately 6 inches. Mulch Netting—Netting shall be used according to the manufacturers recommendations. Netting may be neces-

Mechanical—A disk, crimper, or similar type tool shall be

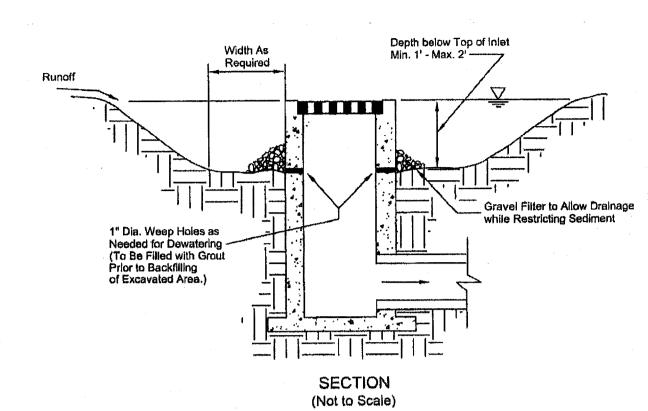
sary to hold mulch in place in areas of concentrated runoff and on critical slopes. Synthetic Binders—Synthetic binders such as Acrylic DLR (Agri-Tac), DCA-70, Petroset, Terra Track or equivalent may

be used at rates recommended by the manufacturer.

 Wood-Cellulose Fiber—Wood-cellulose fiber binder shall be applied at a net dry wt. of 750 lb./ac. The wood-cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lb. / 100 gal.

Specifications

Excavated Drop Inlet Sediment Protection



- 1. The excavated trap should be sized to provide a minimum 4. Sediment should be removed and the trap restored to the original depth when the sediment has accumulated storage capacity calculated at the rate of 135 cubic yards for one (1) acre of drainage area. A trap should be no less than one (1) foot, nor more than two (2) feet deep will not erode. measured from the top of the inlet structure. Side slopes should not be steeper than 2:1.
- 2. The slopes of the trap may vary to fit the drainage area and terrain.
- 3. Where the area receives concentrated flows, such as in a highway median, provide the trap with a shape having a 2:1 ratio of length to width, with the length oriented in the direction of the flow.
- 5. During final grading, the inlet should be protected with geotextile-stone inlet protection. Once final grading is achieved, sod or a suitable temporary erosion control material shall be implemented to protect the area until permanent vegetation is established.

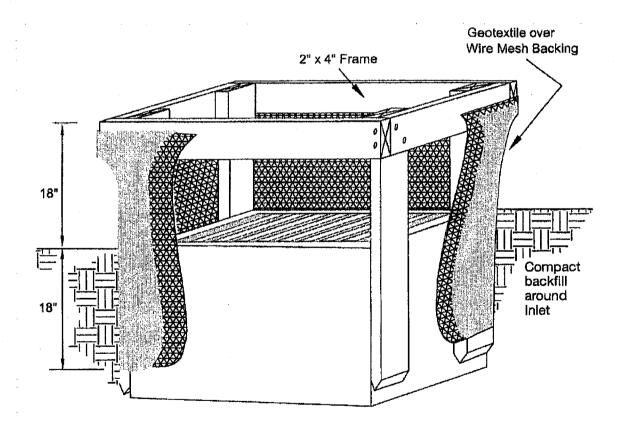
to 40% the design depth of the trap. Removed sediment

should be spread in a suitable area and stabilized so it

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Specifications

Geotextile Inlet Protection

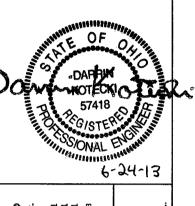


SECTION

- land disturbance begins or before the inlet becomes
- The earth around the inlet shall be excavated completely to a depth at least 18 inches.
- 3. The wooden frame shall be constructed of 2-inch by 4-inch construction grade lumber. The 2-inch by 4-inch posts shall be driven one (1) ft. into the ground at four corners of the injet and the top portion of 2-inch by 4-inch frame assembled using the overlap joint shown. The top of the frame shall be at least 6 inches below adjacent roads if ponded water will pose a safety hazard to traffic.
- 4. Wire mesh shall be of sufficient strength to support fabric with water fully impounded against it. It shall be stretched tightly around the frame and fastened securely
- 1. Inlet protection shall be constructed either before upslope 5. Geotextile material shall have an equivalent opening size of 20-40 sieve and be resistant to sunlight. It shall be stretched tightly around the frame and fastened securely. It shall extend from the top of the frame to 18 inches below the inlet notch elevation. The geotextile shall overlap across one side of the inlet so the ends of the cloth are not fastened to the same post.
 - 6. Backfill shall be placed around the inlet in compacted 6inch layers until the earth is even with notch elevation on ends and top elevation 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 depression. The top of the dike shall be at least 6

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inches higher than the top of the frame.

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