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CONSULTING ENGINEERS
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INSTRUMENTS OF SERVICE

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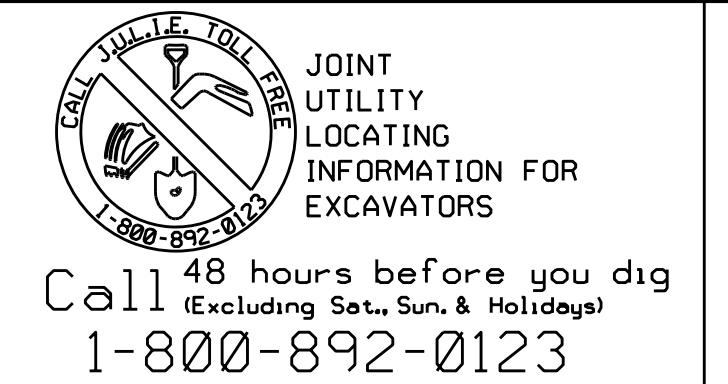
ENGINEERING IMPROVEMENT PLANS

FOR

DOLLAR TREE LOT 1, ADVANCE AUTO PARTS SUBDIVISION GRAYSLAKE, ILLINOIS

PLANS PREPARED
FOR
CHARLES CUI

PLANS PREPARED
BY
SMITHSON ASSOCIATES, INC.
HOPKINTON, MASSACHUSETTS

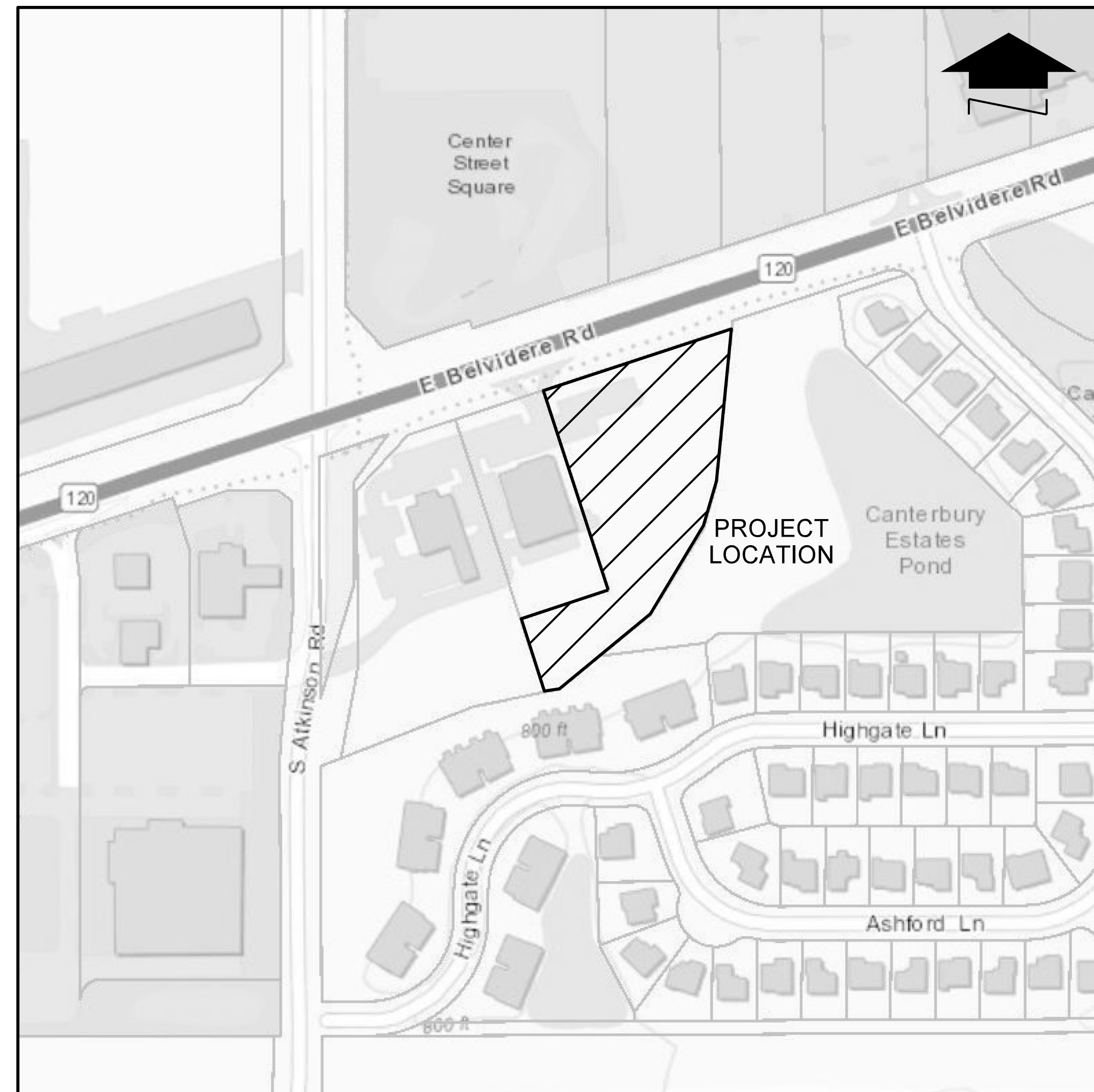


Call 48 hours before you dig
(Excluding Sat., Sun. & Holidays)
1-800-892-0123

PROPERTY OWNER:
CHARLES CUI
4901 W. IRVING PARK ROAD, 2nd FLOOR
CHICAGO, IL 60641

CIVIL ENGINEER:
CURTIS SMITHSON, P.E.
SMITHSON ASSOCIATES, INC.
2 AIKENS ROAD
HOPKINTON, MA 01748

ARCHITECT:
PMPC ARCHITECTS
527 S. WELLS STREET, SUITE 402
CHICAGO, IL 60607



LOCATION MAP

PARCEL SIZE

66,678 SQUARE FEET
1.53 ACRES

BENCHMARK DATA

SOURCE BENCHMARK: (NGS DM3889)
THE STATION IS 147.6 FEET NORTH OF THE ENTRANCE TO THE LAKE COUNTY DOT BUILDING, 9.8 FT EAST OF THE BACK OF CURB ON THE EAST SIDE OF LAKE COUNTY GOVERNMENT CENTER ROAD AND 6.6 FT WEST OF THE EDGE OF THE WINCHESTER HOUSE PARKING LOT.
ELEVATION = 714.07

SITE BENCHMARK:
SQUARE CUT ON THE TOP OF CURB LOCATED ON THE SOUTH CORNER OF ENTRANCE ISLAND LOCATED AT THE NORTHWEST CORNER OF THE SUBJECT PROPERTY.
ELEVATION = 797.95

INDEX OF SHEETS

- C1. COVER SHEET
- C2. SPECIFICATIONS
- C3. EXISTING CONDITIONS AND DEMOLITION PLAN
- C4. SITE AND UTILITY PLAN
- C5. GRADING, DRAINAGE AND SOIL EROSION/SEDIMENT CONTROL PLAN
- C6. SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
- C7. CONSTRUCTION DETAILS
- C8. CONSTRUCTION DETAILS

REVISIONS

COVER SHEET

**DOLLAR TREE
LOT 1, ADVANCE AUTO SUBDIVISION
GRAYSLAKE, ILLINOIS
CHARLES CUI, DEVELOPER**

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**Smithson
Associates, Inc.**
Prof. Design Firm Reg. #184-007793

SCALE AS SHOWN
DATE DECEMBER 1, 2017
PROJECT NO. 17-014-001
SHEET



CURTIS L. SMITHSON
IL LICENSE NO. 062-059289
EXP. 11/30/19

C1

GENERAL NOTES

- 1. THE STANDARD SPECIFICATIONS LISTED ON THE COVER SHEET, THESE CONSTRUCTION PLANS, THE SPECIAL PROVISIONS, GENERAL CONDITIONS AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT DOCUMENTS...
2. ALL WORK SHALL CONFORM TO THE FOLLOWING STANDARD SPECIFICATIONS:
A. VILLAGE OF GRAYSLAKE ENGINEERING DESIGN STANDARDS
B. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS...
C. STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS...
D. STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS...
E. ILLINOIS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS...
3. NO CONSTRUCTION PLANS SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED...
4. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED AGAINST ALL DEFECTS IN MATERIALS AND WORKMANSHIP...
5. BEFORE ACCEPTANCE BY THE OWNER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED...
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS...
7. ALL CONSTRUCTION LAYOUT AND STAKING SHALL BE PERFORMED BY THE CONTRACTOR...
8. BASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE...
9. WHENEVER THE PERFORMANCE OF WORK IS INDICATED ON THE PLANS...
10. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS, ELEVATIONS, MATERIALS AND SIZE OF EXISTING UTILITIES AND STRUCTURES...
11. WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIALS IS DEPOSITED IN THE FLOW LINE OF OUTLETS, DRAINAGE...
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES...
13. ALL PERMANENT TYPE PAVEMENTS OR OTHER PERMANENT IMPROVEMENTS WHICH ARISE FROM THIS PROJECT...
14. THE CONTRACTOR SHALL BE REQUIRED TO REPLACE, IN KIND, ALL SURFACE FIXTURES DAMAGED OR REMOVED...
15. STREETS ARE TO BE KEPT CLEANED OF DIRT AND DEBRIS...
16. WHERE OVERHANGING BRANCHES INTERFERE WITH OPERATIONS OF CONSTRUCTION...
17. ALL EXISTING TRAFFIC SIGNS, STREET SIGNS, ETC., WHICH INTERFERE WITH CONSTRUCTION OPERATIONS...
18. ALL FIELD TITILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS...
19. DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL INSURE POSITIVE SITE DRAINAGE...
20. PUMPING GROUNDWATER AND/OR STORMWATER FROM OPEN TRENCHES OR DEPRESSIONAL AREAS IS CONSIDERED INCIDENTAL...
21. IT SHALL BE THE RESPONSIBILITY OF EACH RESPECTIVE CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS...
22. THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES...

GENERAL NOTES (CONT.)

- 23. SPECIAL ATTENTION IS DRAWN TO THE FACT THAT ARTICLE 105.06 OF THE STANDARD SPECIFICATIONS REQUIRES THE CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT ON THE PROJECT SITE AT ALL TIMES...
24. ELECTRIC, TELEPHONE, NATURAL GAS, AND OTHER UTILITY COMPANIES HAVE UNDERGROUND AND/OR OVERHEAD SERVICE FACILITIES...
25. NOT ALL GAS, POWER OR TELEPHONE LINES, WHETHER ABOVE OR BELOW GROUND...
26. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND FEDERAL SAFETY REGULATIONS AS OUTLINED IN THE LATEST REVISIONS OF THE FEDERAL CONSTRUCTION SAFETY STANDARDS...
27. THE CONTRACTOR SHALL INDemnify THE ENGINEER, THEIR AGENTS, ETC., THE OWNER AND ITS AGENTS...
28. THE CONTRACTOR SHALL KEEP A SET OF "APPROVED" CONSTRUCTION PLANS ON THE JOB SITE...
29. THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF GRAYSLAKE, OWNER AND THE ENGINEER AT LEAST 48 HOURS IN ADVANCE...
30. THE CONTRACTOR INSTALLING PLUMB IMPROVEMENTS IN THE VILLAGE OF GRAYSLAKE SHALL BE REQUIRED TO ATTEND PRE-CONSTRUCTION MEETING...

UNDERGROUND UTILITIES

- 1. WORK UNDER THIS SECTION INCLUDE TRENCHING, INSTALLATION OF PIPE, CASTINGS, STRUCTURES, BACKFILLING OF TRENCHES AND COMPACTION...
2. ROUGH GRADING TO WITHIN 1-FEET OF FINISHED SUBGRADE SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF UNDERGROUND UTILITY INSTALLATION...
3. ALL UTILITY TRENCHES BENEATH PROPOSED OR EXISTING UTILITIES...
4. REMOVE AN ENTIRE SECTION OF PIPE (BREAKING UP THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION...
5. MATERIAL AND METHOD MUST BE APPROVED BY VILLAGE IN WRITING...
6. ALL FLOOR DRAINS AND FLOOR DRAIN SUMP PUMPS SHALL DISCHARGE INTO THE SANITARY SEWER...
7. FOOTING DRAINS, DOWNPOUNTS AND SUBSURFACE STORMWATERS SHALL DISCHARGE INTO THE STORM SEWER SYSTEM...
8. POLYVINYL CHLORIDE PLASTIC GRAVITY SEWER PIPE (PVC) CONFORMING TO ASTM DESIGNATION D-2241 WITH AN OR OF 26...
9. ALL SANITARY SERVICE CONNECTIONS TO MAINLINE SEWER SHALL BE MADE WITH PRECAST WYES...
10. ALL SANITARY SEWER MANHOLES SHALL HAVE ECCENTRIC COUNES...
11. ALL SANITARY SEWERS AND SANITARY SEWER SERVICES SHALL BE INSTALLED ON GRANULAR CRUSHED GRAVEL OR LIMESTONE BEDDING...
12. WATERSTOP GASKETS SHALL BE PROVIDED AT ALL SANITARY SEWER MANHOLE CONNECTIONS...
13. ALL SANITARY SEWER CONNECTIONS TO MAINLINE SEWER SHALL BE MADE WITH PRECAST WYES OR TEES MANUFACTURED SPECIFICALLY FOR THAT PURPOSE...
14. SANITARY SERVICES SHALL BE LAID TO A MINIMUM GRADE OF 1.00%...
15. SEWER SERVICE RISER SHALL BE USED WHEN MAINLINE SEWER EXCEEDS 12-FT IN DEPTH...
16. STORM SEWERS, SEWERS AND SERVICES SHALL BE CONSTRUCTED OF ONE OR MORE OF THE FOLLOWING MATERIALS...
17. ALL SANITARY SEWER SERVICES SHALL BE INSTALLED ON GRANULAR CRUSHED GRAVEL OR LIMESTONE BEDDING...
18. RIP-RAP MATERIAL TO BE PROVIDED IN CONJUNCTION WITH THE UNDERGROUND IMPROVEMENTS...
19. ALL WATER MAINS SHALL BE SUBJECT TO PRESSURE TESTING FOR ONE (1) HOUR AT 150 PSIG...
20. THE CONTRACTOR SHALL MAINTAIN A LEGIBLE RECORD ON A SET OF CONSTRUCTION PLANS...
21. ALL CATCH BASINS, SUMPS AND/OR RETENTION BASINS ARE TO BE CLEANED AT THE END OF THE PROJECT...
22. IT SHALL BE THE RESPONSIBILITY OF THE UNDERGROUND CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS...

UNDERGROUND UTILITIES (CONT.)

- * PVC SDR-35 SMOOTH-WALL PERFORATED UNDERDRAIN PIPE FOR DETENTION BASIN AND SOFT SURFACE UNDERDRAIN LOCATIONS...
17. ALL STORM RCP SEWER SERVICE CONNECTIONS TO MAINLINE STORMSEWER SHALL BE MADE WITH EITHER AN APPROPRIATE PRECAST WYE (OR TEE) OR AN APPROPRIATE INSERT-TEE...
18. STORM SEWER MANHOLES SHALL BE PRECAST STRUCTURES...
19. WATERMAIN SHALL BE CONSTRUCTED FROM ONE OR MORE OF THE FOLLOWING MATERIALS...
20. WATERMAIN SHALL BE DUCTILE IRON CL2 CONFORMING TO ANSI A-21.51...
21. GATE VALVES SHALL BE IN ACCORDANCE WITH VILLAGE DETAIL...
22. VALVE VAULTS SHALL BE IN ACCORDANCE WITH VILLAGE DETAIL...
23. #10 WIRE SHALL BE INSTALLED WITH ALL NON-METALLIC WATER MAINS...
24. FIRE HYDRANTS SHALL BE IN ACCORDANCE WITH VILLAGE DETAIL...
25. WATER SERVICE SHALL BE TYPE K COPPER OR CLASS 52 DUCTILE IRON AS NOTED ON THE PLANS...
26. THRUST BLOCKING SHALL BE INSTALLED ON WATERMANS AT ALL BENDS, TEES, ELBOWS, ETC...
27. ALL WATERMANS SHALL BE BEDDED IN ACCORDANCE WITH TRENCH DETAIL...
28. WHENEVER POSSIBLE, A WATERMAIN MUST BE LAID AT LEAST 10-FT HORIZONTALLY FROM ANY EXISTING OR PROPOSED SANITARY SEWER...
29. NON-SHEAR COUPLINGS WITH STAINLESS STEEL BANDS SHALL BE USED WHEN CONNECTING SEWER PIPES OF DISSIMILAR MATERIALS...
30. THE UNDERGROUND CONTRACTOR SHALL PLACE AND MOUND EXCESS EXCAVATED TRENCH MATERIAL ADJACENT TO THE TRENCHES...
31. THE UNDERGROUND CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ANY EXCAVATION OR THE INSTALLATION OF THE SEWER OR WATER SYSTEMS...
32. ANY ANTICIPATED COST OF SHEETING SHALL BE REFLECTED IN THE CONTRACT AMOUNTS...
33. STRUCTURES FOR SANITARY AND STORM SEWERS AND VALVE VAULTS FOR WATERMANS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS...
34. FRAMES AND LIDS (OR GRATES) FOR SANITARY, WATERMAIN AND STORM SEWER STRUCTURES SHALL BE AS INDICATED WITHIN THESE IMPROVEMENT PLANS...
35. ALL STRUCTURES MAY HAVE A MAXIMUM OF 8-INCHES OF ADJUSTING RINGS...
36. ALL TOP FRAMES FOR STORM AND SANITARY SEWERS AND VALVE VAULTS THROUGH CURBS OR DRIVEWAYS...
37. ALL SANITARY SEWERS INCLUDING SERVICE LINES AND MANHOLES SHALL BE SUBJECT TO EITHER AN INFILTRATION TEST OR AIR TEST...
38. SANITARY SEWERS, INCLUDING SERVICES AND MANHOLES, SHALL BE AIR TESTED IN ACCORDANCE WITH SECTION 311-11C OF THE STANDARD SPECIFICATIONS...
39. ALL WATER MAINS SHALL BE SUBJECT TO PRESSURE TESTING FOR ONE (1) HOUR AT 150 PSIG...
40. THE CONTRACTOR SHALL MAINTAIN A LEGIBLE RECORD ON A SET OF CONSTRUCTION PLANS...
41. ALL CATCH BASINS, SUMPS AND/OR RETENTION BASINS ARE TO BE CLEANED AT THE END OF THE PROJECT...
42. IT SHALL BE THE RESPONSIBILITY OF THE UNDERGROUND CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS...

EARTHWORK

- 1. WORK UNDER THIS SECTION SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
A. CLEARING AND REMOVAL OF UNDESIRABLE TREES AND OTHER VEGETATION...
B. STRIPPING OF TOPSOIL IS REQUIRED FROM ALL STREET, DRIVEWAY, PARKING LOT, RIGHT-OF-WAY, BUILDING PAD, AND OTHER DESIGNATED STRUCTURAL AREAS...
C. STOCKPILING OF TOPSOIL AT LOCATIONS AS DIRECTED BY THE OWNER...
D. DEMOLITION AND REMOVAL OF EXISTING BUILDINGS OR FOUNDATIONS...
E. CLAY CUT AND DISPAL FILL WITH COMPACTION WITHIN ROADWAY...
F. EXCAVATION AND GRADING OF THE OPEN SPACE AND/OR YARD AREAS...
G. ELEVATION AND COMPACTION OF CLAY TO THE DESIGN SUBGRADE...
H. ELEVATION AND COMPACTION OF NON-STRUCTURAL FILLS...
I. IF REQUIRED, REMOVAL FROM SITE AND DISPOSAL OF ANY EXCESS OR UNSUITABLE MATERIAL...
J. BACKFILLING OF CURBS AND/OR PAVEMENT AND SIDEWALK AFTER INSTALLATION OF SAME BY THE PAVING CONTRACTOR...
K. FINAL SHAPING AND TRIMMING TO THE LINES...
L. SOIL EROSION CONTROL MEASURES...
2. PRIOR TO COMMENCEMENT OF MASS GRADING OPERATIONS, THE EARTHWORK CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SOIL EROSION CONTROL SCHEDULE...
3. PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES, A "SNOW FENCE" SHALL BE ERECTED AROUND ANY TREE DESIGNATED ON THE PLANS...
4. THE GRADING OPERATIONS ARE TO BE CLOSELY SUPERVISED AND INSPECTED...
5. THE PROPOSED GRADING ELEVATIONS SHOWN ON THE PLANS ARE FINISH GRADES...
6. THE SEWER AND WATERMANS SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION...
7. THE PROPOSED GRADING ELEVATIONS SHOWN ON THE PLANS ARE FINISH GRADES...
8. THE SELECTED STRUCTURAL FILL MATERIAL SHALL BE PLACED IN LEVEL UNIFORM LAYERS...
9. THE UNDERGROUND CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ANY EXCAVATION OR THE INSTALLATION OF THE SEWER OR WATER SYSTEMS...
10. EMBANKMENT MATERIAL (RANDOM FILL) WITHIN NON-STRUCTURAL FILL AREAS...
11. THE SURFACE VEGETATION, TOPSOIL, AND ANY OBVIOUSLY SOFT UNDERLYING SOIL...
12. COMPLETED GRADING (FINISHED FINE GRADE) FOR PROPOSED PAVEMENT SURFACE AREAS...
13. PRIOR TO UTILITY CONSTRUCTION, PROPOSED PAVEMENT AREAS, BUILDING PADS, DRIVEWAYS, CURBS AND DRIVEWAYS...
14. THE SUBGRADE OF PROPOSED STREET AND PAVEMENT AREAS SHALL BE PROOF-ROLLED BY THE CONTRACTOR...
15. RIP-RAP MATERIAL TO BE PROVIDED IN CONJUNCTION WITH THE UNDERGROUND IMPROVEMENTS...
16. THE CONTRACTOR SHALL MAKE HIS OWN SOIL INVESTIGATIONS...
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE, AND ANY NECESSARY CORRECTIVE ACTION ASSOCIATED WITH THE EROSION CONTROL MEASURES...
18. THE CONTRACTOR SHALL CONTACT A QUALIFIED INDEPENDENT GEOTECHNICAL FIRM TO VERIFY REQUIRED COMPACTION REQUIREMENTS...
19. WHERE FILL MATERIAL IS REQUIRED TO REPAIR THE DESIGN SUBGRADE OR TO REPLACE UNSUITABLES...
20. ALL EARTHWORK AND ALL ASSOCIATED RELATED WORK NECESSARY SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE...
21. EXCESS EXCAVATED MATERIAL NOT SUITABLE OR REQUIRED FOR BACKFILLING OR SITE GRADING...
22. IT SHALL BE THE RESPONSIBILITY OF THE EXCAVATION CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS...

DEMOLITION, CLEARING, GRUBBING, TREE PROTECTION AND PLANTING

- 1. ALL ITEMS NOTED ON THE PLANS TO BE REMOVED OR OTHER ITEMS NOT SPECIFICALLY NOTED NECESSARY TO BE REMOVED TO CONSTRUCT THE PROPOSED IMPROVEMENTS SHALL BE DEMOLISHED/REMOVED AND DISPOSED OF LEGALLY...
2. ALL TREES, TRUNKS, BRUSH, ROOTS AND OTHER OBJECTIONABLE MATERIAL SHALL BE CUT, GRUBBED, REMOVED AND DISPOSED OF OFF-SITE...
3. TREES OR GROUPS OF TREES SHOWN TO BE PROTECTED OR BEYOND THE LIMITS OF DISTURBANCE SHALL BE PROTECTED FROM DAMAGE...
4. AREAS OUTSIDE THE LIMITS OF DISTURBANCE SHALL BE PROTECTED FROM GRAZE AND NO EQUIPMENT OR MATERIALS SHALL BE STORED IN THESE AREAS...
5. NO STUMPS, TREES, LIMBS, OR BRUSH SHALL BE BURIED IN ANY FILLS OR EMBANKMENTS...
6. CLEARING, TREE REMOVAL, TREE PROTECTION, TREE CARE, REPAIR AND REPLACEMENT OF BOTH EXISTING AND NEWLY PLANT MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 201 OF THE I.D.O.T. STANDARD SPECIFICATIONS...
7. PLANTING AND CARE OF WOODY PLANTS SUCH AS TREES, SHRUBS, ETC. SHALL BE IN ACCORDANCE WITH SECTION 253 OF THE I.D.O.T. STANDARD SPECIFICATIONS...

EROSION CONTROL SPECIFICATIONS

- 1. SOIL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE LAKE COUNTY STORMWATER TECHNICAL GUIDANCE MANUAL SHALL BE FOLLOWED AS DIRECTED BY THE OWNER, ENGINEER, OR VILLAGE ENGINEER...
2. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE FOLLOWING STORMWATER MANAGEMENT AND EROSION CONTROL NOTES...
3. PRIOR TO COMMENCEMENT OF MASS GRADING OPERATIONS, THE EARTHWORK CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SOIL EROSION CONTROL SCHEDULE...
4. THE GRADING OPERATIONS ARE TO BE CLOSELY SUPERVISED AND INSPECTED...
5. THE PROPOSED GRADING ELEVATIONS SHOWN ON THE PLANS ARE FINISH GRADES...
6. THE SEWER AND WATERMANS SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION...
7. THE PROPOSED GRADING ELEVATIONS SHOWN ON THE PLANS ARE FINISH GRADES...
8. THE SELECTED STRUCTURAL FILL MATERIAL SHALL BE PLACED IN LEVEL UNIFORM LAYERS...
9. THE UNDERGROUND CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ANY EXCAVATION OR THE INSTALLATION OF THE SEWER OR WATER SYSTEMS...
10. EMBANKMENT MATERIAL (RANDOM FILL) WITHIN NON-STRUCTURAL FILL AREAS...
11. THE SURFACE VEGETATION, TOPSOIL, AND ANY OBVIOUSLY SOFT UNDERLYING SOIL...
12. COMPLETED GRADING (FINISHED FINE GRADE) FOR PROPOSED PAVEMENT SURFACE AREAS...
13. PRIOR TO UTILITY CONSTRUCTION, PROPOSED PAVEMENT AREAS, BUILDING PADS, DRIVEWAYS, CURBS AND DRIVEWAYS...
14. THE SUBGRADE OF PROPOSED STREET AND PAVEMENT AREAS SHALL BE PROOF-ROLLED BY THE CONTRACTOR...
15. RIP-RAP MATERIAL TO BE PROVIDED IN CONJUNCTION WITH THE UNDERGROUND IMPROVEMENTS...
16. THE CONTRACTOR SHALL MAKE HIS OWN SOIL INVESTIGATIONS...
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE, AND ANY NECESSARY CORRECTIVE ACTION ASSOCIATED WITH THE EROSION CONTROL MEASURES...
18. THE CONTRACTOR SHALL CONTACT A QUALIFIED INDEPENDENT GEOTECHNICAL FIRM TO VERIFY REQUIRED COMPACTION REQUIREMENTS...
19. WHERE FILL MATERIAL IS REQUIRED TO REPAIR THE DESIGN SUBGRADE OR TO REPLACE UNSUITABLES...
20. ALL EARTHWORK AND ALL ASSOCIATED RELATED WORK NECESSARY SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE...
21. EXCESS EXCAVATED MATERIAL NOT SUITABLE OR REQUIRED FOR BACKFILLING OR SITE GRADING...
22. IT SHALL BE THE RESPONSIBILITY OF THE EXCAVATION CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS...

PAVING, CURB AND WALKS

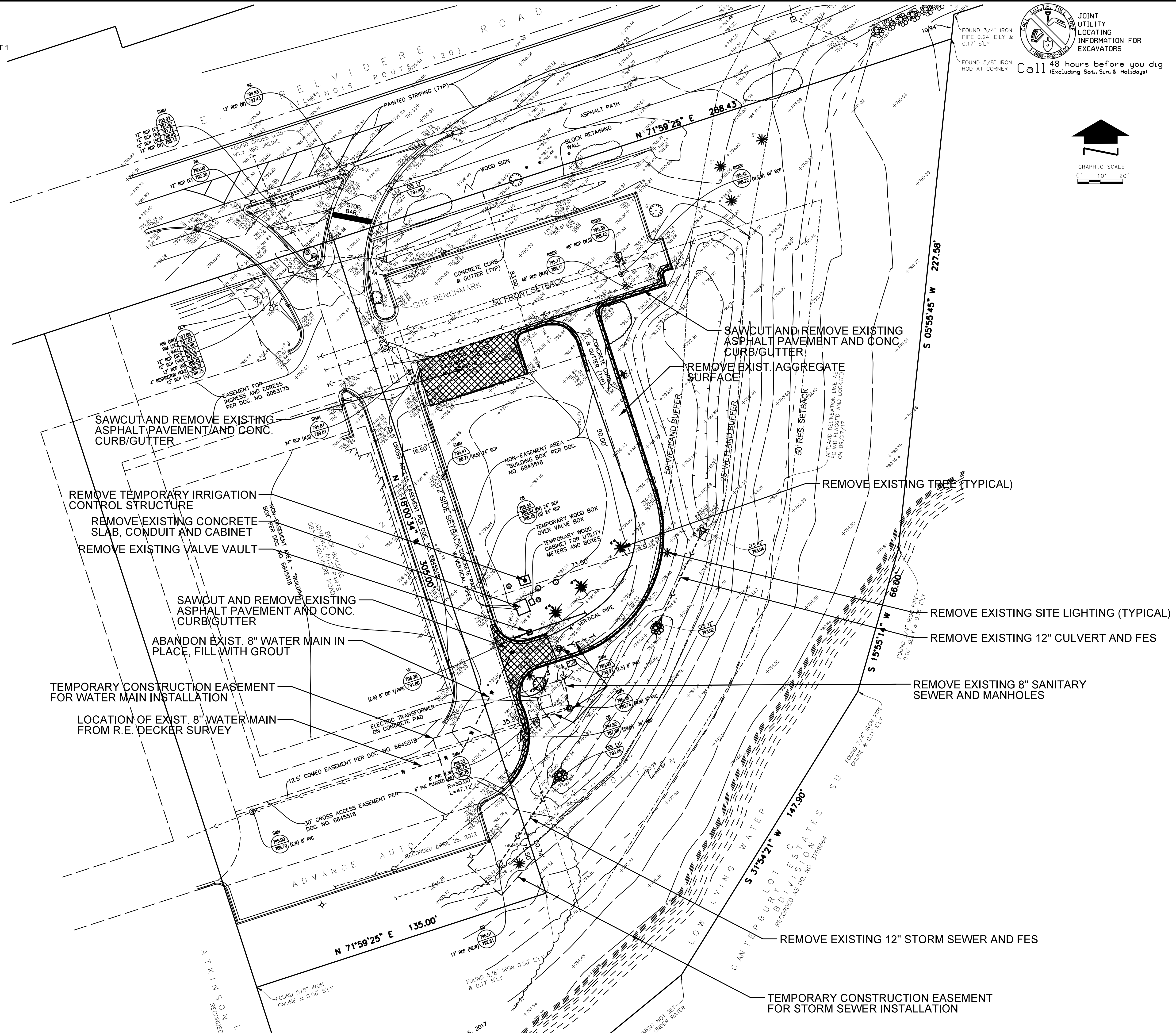
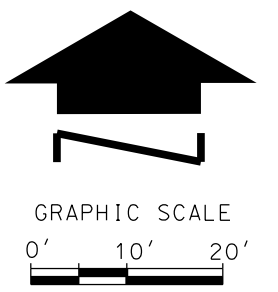
- 1. WORK UNDER THIS SECTION SHALL INCLUDE FINAL SUBGRADE SHAPING AND PREPARATION, CONCRETE JOINTING, PLACEMENT, GRADING FOR BASE AND PAVEMENT BASE COURSE MATERIALS AND SUBSEQUENT BINDER AND/OR SURFACE COURSES...
2. SUBGRADE FOR PROPOSED PAVEMENT SHALL BE FINISHED BY THE EXCAVATION CONTRACTOR TO WITHIN 0.1-1% OF PLAN ELEVATION...
3. THE PROPOSED PAVEMENT SHALL CONSIST OF THE SUB-BASE COURSE, BASE COURSE, BITUMINOUS CONCRETE BINDER COURSE, AND A BITUMINOUS MATERIAL PRIME COAT...
4. THE HOT-MIX ASPHALT (HMA) SURFACE COURSE SHALL BE NS0, 19.5-LSL AND HMA CLEAR ASPHALT AND ALL BEAMS SHALL BE NS0, 11.9-19.0L...
5. WHEN PLACING THE BASE MATERIAL BETWEEN CURBS, THE CONTRACTOR SHALL EITHER MARK (WITH PAINT) ON THE FACE OF THE CURB...
6. AFTER THE INSTALLATION OF THE BASE COURSE, ALL TRAFFIC SHALL BE KEPT OFF THE BASE UNTIL THE BINDER COURSE IS LAID...
7. THE CURB AND GUTTER SHALL BE OF THE TYPE AND THICKNESS SPECIFIED IN THE CONSTRUCTION PLANS...
8. CURBS AND CURB/GUTTER SHALL BE OF THE TYPE AS DETAILED IN THE CONSTRUCTION PLANS...
9. PENANSION JOINTS SHALL BE INSTALLED AT 250-FT TO 300-FT INTERVALS...
10. CURING AND PROTECTION OF ALL EXPOSED CONCRETE SURFACES SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS...
11. CURBS SHALL BE DEPRESSED AT LOCATIONS WHERE PUBLIC WALKS/PEDESTRIAN PATHS AND DRIVEWAYS INTERSECT CURB LINES...
12. SIDEWALKS SHALL BE OF THE THICKNESS AND DIMENSIONS AS SHOWN IN THE CONSTRUCTION PLANS...
13. CURBS SHALL BE DEPRESSED AT LOCATIONS WHERE PUBLIC WALKS/PEDESTRIAN PATHS AND DRIVEWAYS INTERSECT CURB LINES...
14. DISTURBED GROUND WITHIN THE STATE, COUNTY AND VILLAGE RIGHT-OF-WAY SHALL BE RESTORED WITH 6" OF TOPSOIL AND SODDING...
15. EACH RESPECTIVE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE, AND ANY NECESSARY CORRECTIVE ACTION ASSOCIATED WITH THE EROSION CONTROL MEASURES...
16. PAINTED PAVEMENT MARKINGS AND SYMBOLS OF THE TYPE AND COLOR AS NOTED ON THE CONSTRUCTION PLANS...
17. ALL PAVING, SIDEWALK AND CURB/GUTTER WORK SHALL BE DONE IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS...
18. ALL ACCESSIBLE PARKING SHALL BE STRIPED AND SIGNED IN ACCORDANCE WITH ILLINOIS ACCESSIBILITY CODE (I.A.C.)...
19. THE CONTRACTOR SHALL CONTACT A QUALIFIED INDEPENDENT GEOTECHNICAL FIRM TO VERIFY REQUIRED COMPACTION REQUIREMENTS...
20. ALL EARTHWORK AND ALL ASSOCIATED RELATED WORK NECESSARY SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE...
21. EXCESS EXCAVATED MATERIAL NOT SUITABLE OR REQUIRED FOR BACKFILLING OR SITE GRADING...
22. IT SHALL BE THE RESPONSIBILITY OF THE EXCAVATION CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS...

REVISIONS: A grid for tracking design changes.
DOLLAR TREE: A logo for the design firm.
LOT 1, ADVANCE AUTO SUBDIVISION: The project name.
GRAYSLAKE, ILLINOIS: The project location.
CHARLES CUI, DEVELOPER: The client's name.
Smithson Associates, Inc.: The design firm's name.
2 Akens Road, Hopkins, MA 01748: The firm's address.
Tel: 860-308-9639, Fax: 860-308-7620: The firm's contact information.
www.smithson.com: The firm's website.
Prof. Design Firm Reg. #1864-002793: The firm's registration number.
SCALE: AS SHOWN: The scale of the drawing.
DATE: DECEMBER 1, 2017: The date of the drawing.
PROJECT NO.: 17-01-081: The project number.
SHEET: 17 OF 18: The sheet number.

NOTES:

1. ALL ITEMS NOTED AND SHOWN IN BOLD PRINT TO BE REMOVED.
2. SURVEY BACKGROUND FROM "BOUNDARY & TOPOGRAPHIC SURVEY, LOT 1 IN ADVANCE AUTO RESUBDIVISION, GRAYSLAKE, ILLINOIS" BY SIGHT ON SOLUTIONS, INC., LATEST REVISION 09/28/17.

JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS
 Call 48 hours before you dig
 (Excluding Sat., Sun. & Holidays)



SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT AND CONC. CURB/GUTTER

REMOVE TEMPORARY IRRIGATION CONTROL STRUCTURE
REMOVE EXISTING CONCRETE SLAB, CONDUIT AND CABINET
REMOVE EXISTING VALVE VAULT

SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT AND CONC. CURB/GUTTER

ABANDON EXIST. 8" WATER MAIN IN PLACE, FILL WITH GROUT

TEMPORARY CONSTRUCTION EASEMENT FOR WATER MAIN INSTALLATION

LOCATION OF EXIST. 8" WATER MAIN FROM R.E. DECKER SURVEY

SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT AND CONC. CURB/GUTTER!

REMOVE EXIST. AGGREGATE SURFACE!

REMOVE EXISTING TREE (TYPICAL)

REMOVE EXISTING SITE LIGHTING (TYPICAL)
REMOVE EXISTING 12" CULVERT AND FES

REMOVE EXISTING 8" SANITARY SEWER AND MANHOLES

REMOVE EXISTING 12" STORM SEWER AND FES

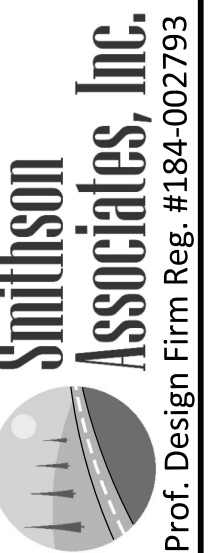
TEMPORARY CONSTRUCTION EASEMENT FOR STORM SEWER INSTALLATION

REVISIONS

EXISTING CONDITIONS AND DEMOLITION PLAN

DOLLAR TREE
LOT 1, ADVANCE AUTO SUBDIVISION
GRAYSLAKE, ILLINOIS
CHARLES CUI, DEVELOPER

2 Aikens Road
 Hopkinton, MA 01748
 P: 508.925.2620
 F: 508.925.2133
 E: www.curtissmithson.com



Prof. Design Firm Reg. #184-002793

SCALE: AS SHOWN
 DATE: DECEMBER 1, 2017
 PROJECT NO.: 17-014-001
 SHEET

NOTES: DENOTED ON PLAN BY (#)

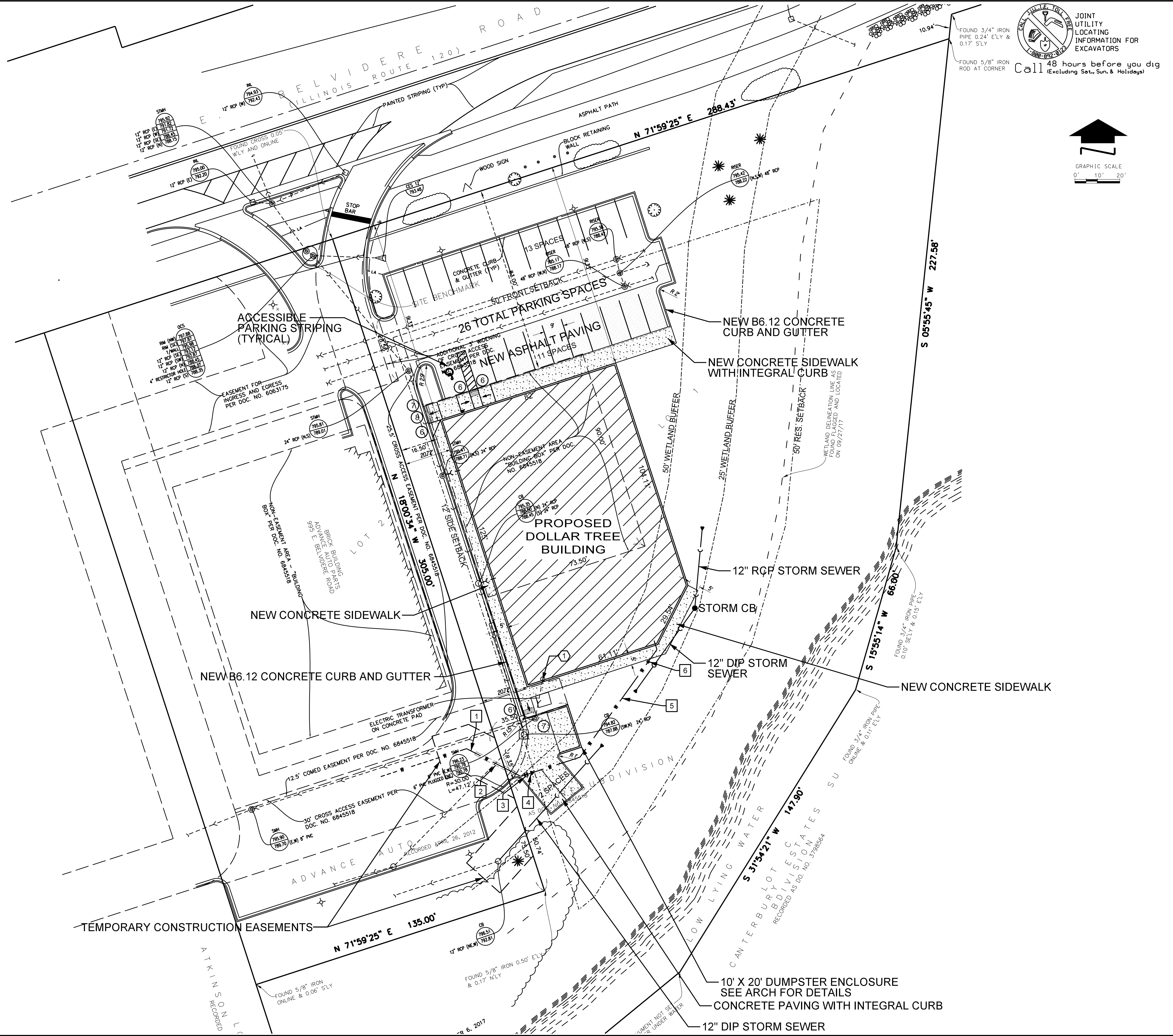
1. SEE ARCHITECTURAL SITE PLAN FOR BUILDING DETAILS AND ZONING REQUIREMENTS TABULATION.
2. WATER AND SANITARY SEWER MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS ON SHEET C2, UNLESS SUPERSEDED BY VILLAGE REQUIREMENTS.
3. ALL WATERMAIN TO BE CONSTRUCTED OF DUCTILE IRON PIPING (DIP) CLASS 52 AT 5.5' MINIMUM DEPTH TO TOP OF PIPE.
4. SEE GRADING AND DRAINAGE PLAN FOR STORM SEWER CONSTRUCTION DETAILS.
5. SEE MEP PLANS FOR CONTINUATION OF UTILITIES INSIDE BUILDING.
6. 6 LF TRANSITION CURB HEIGHT FROM 0" TO 6".
7. 1 LF TRANSITION CURB HEIGHT FROM 0" TO 6".
8. SAWCUT EXISTING CURB FOR RAMP CONSTRUCTION.

SANITARY SEWER NOTES: DENOTED ON PLAN BY (#)

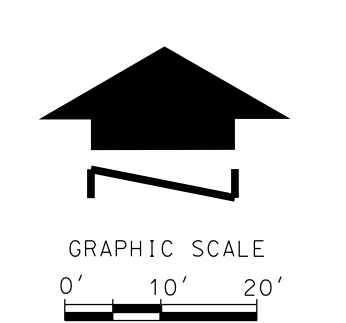
1. CONNECT BLDG SAN SEWER SERVICE TO EXIST. 6" SAN SEWER STUB-OUT, INSTALL EXTERIOR CLEANOUT

WATER SYSTEM NOTES: DENOTED ON PLAN BY (#)

1. 35 LF 8" DIP WATER MAIN
2. 20 LF 18" DIA STEEL CASING
3. VALVE VAULT
4. 8X2 RED
5. 85 LF 2" COPPER WATER SERVICE
6. BUFFALO BOX



JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS
 Call 48 hours before you dig
 (Excluding Sat., Sun. & Holidays)



REVISIONS

SITE AND UTILITY PLAN

DOLLAR TREE
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Smithson Associates, Inc.
 Prof. Design Firm Reg. #184-002793

SCALE: AS SHOWN
 DATE: DECEMBER 1, 2017
 PROJECT NO.: 17-014-001
 SHEET: C4

NOTES: DENOTED ON PLAN BY #

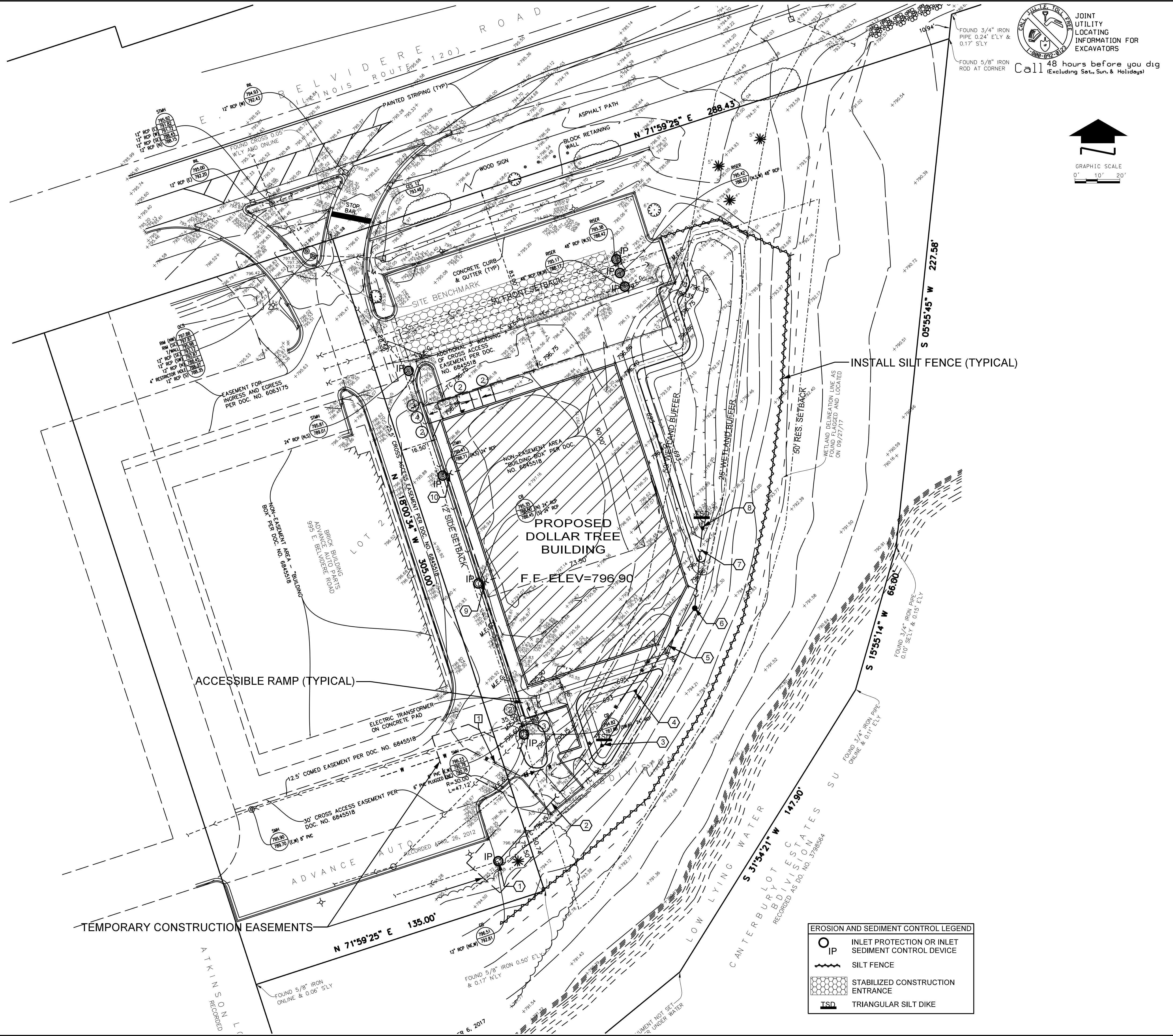
1. REINFORCED CONCRETE PIPE (CLASS IV) AND DUCTILE IRON PIPE (CLASS 52) SHALL BE CONSIDERED "HEAVY-DUTY" PIPING AND SHALL BE INSTALLED WHERE PIPE COVER IS LESS THAN THREE FEET.
2. 6 LF TRANSITION CURB HEIGHT FROM 0" TO 6".
3. 1 LF TRANSITION CURB HEIGHT FROM 0" TO 6".
4. SAWCUT EXISTING CURB FOR RAMP CONSTRUCTION.
5. SPOT ELEVATIONS SHOWN ARE AT FINISHED SURFACE.
6. "M.E.G." SHOWN ON PLAN DENOTES "MATCH EXISTING GRADE".

STORM SEWER NOTES: DENOTED ON PLAN BY #

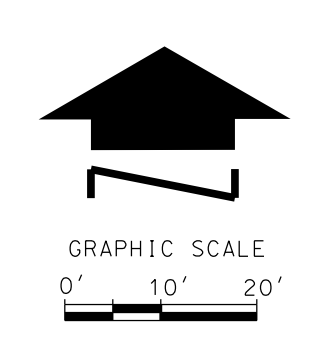
1. CONNECT TO EXISTING CB, INV=792.81
2. 68 LF 12" DIP CL52 WATERMAIN QUALITY STORM @S=0.22%
3. 12" RCP FES, INV=792.96
4. 12" RCP FES, INV=792.96
5. 44 LF 12" DIP CL52 WATERMAIN QUALITY STORM @S=0.00%
6. CATCH BASIN, TYPE C, INV=792.96, RIM=696.00
7. 35 LF 12" RCP STORM @S=0.00%
8. 12" RCP FES, INV=792.96
9. 6 LF 6" PVC ROOF DRAIN @ S=1.00% MIN.
10. 6 LF 6" PVC ROOF DRAIN @ S=1.00% MIN.

UTILITY CROSSINGS

1. 24" RCP STORM, INV=787.88
2. 8" DIP WATER, TOP=785.88



JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS
 FOUND 3/4" IRON PIPE 0.24' ELY & 0.17' SLY
 FOUND 5/8" IRON ROD AT CORNER
Call 48 hours before you dig
 (Excluding Sat., Sun. & Holidays)



EROSION AND SEDIMENT CONTROL LEGEND

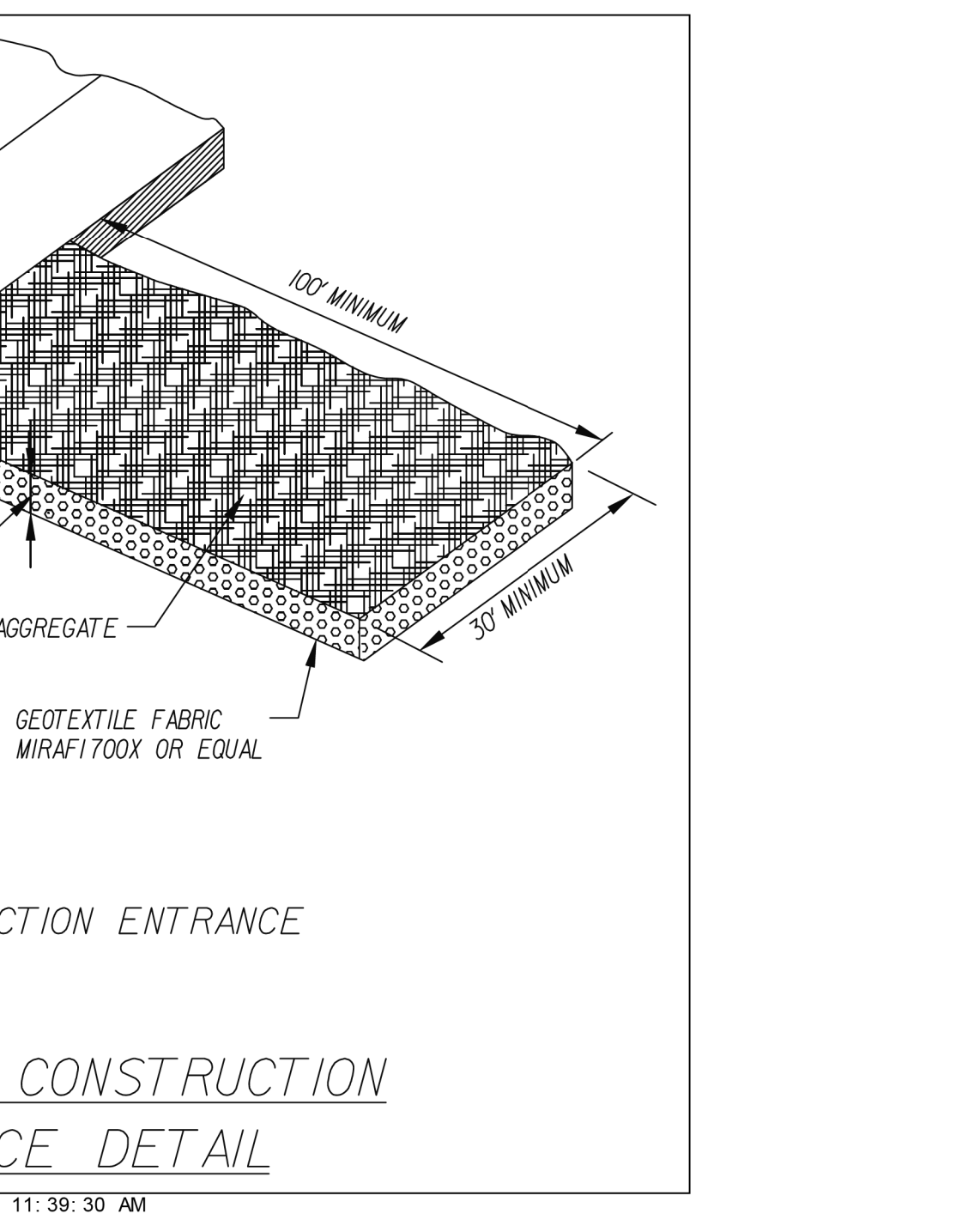
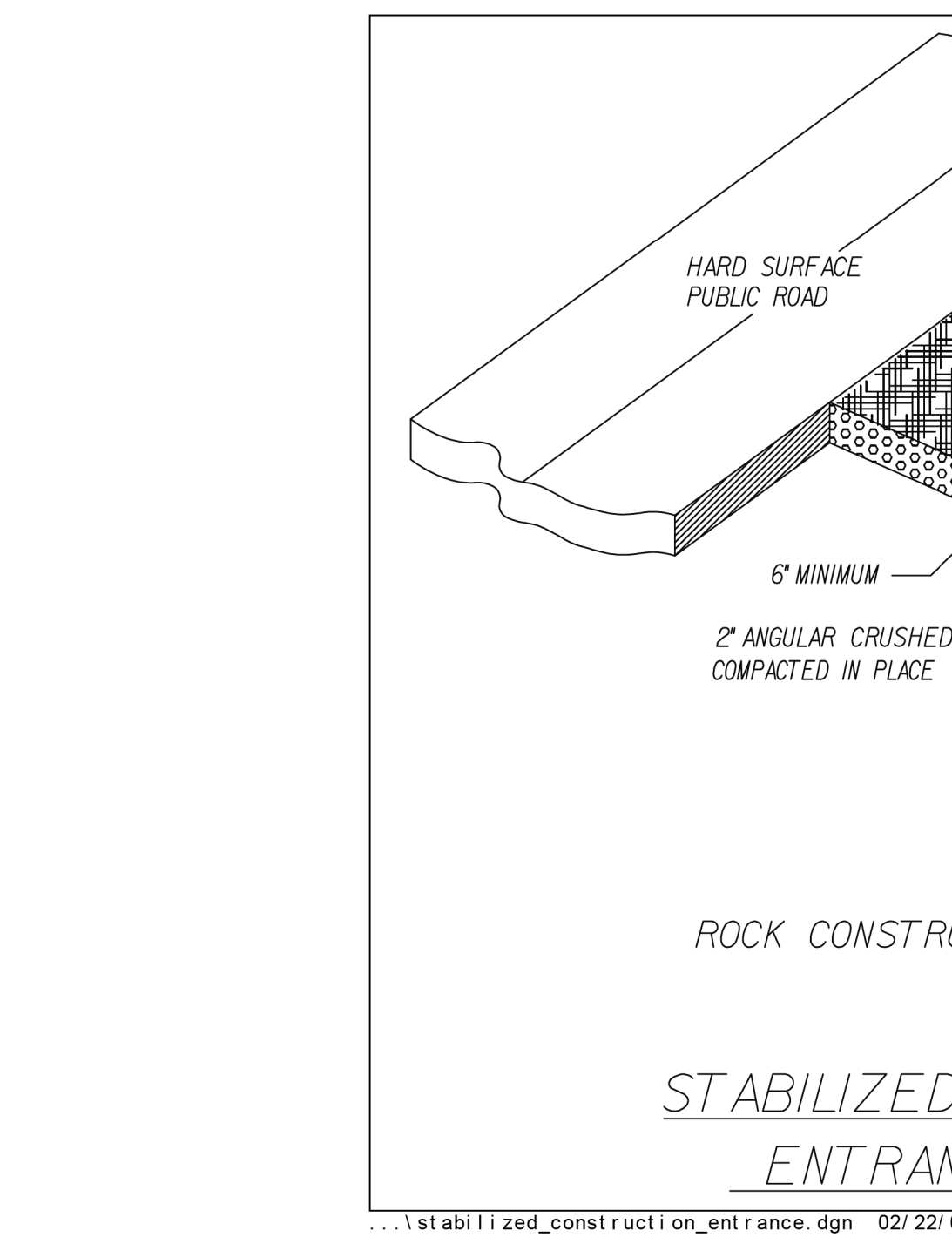
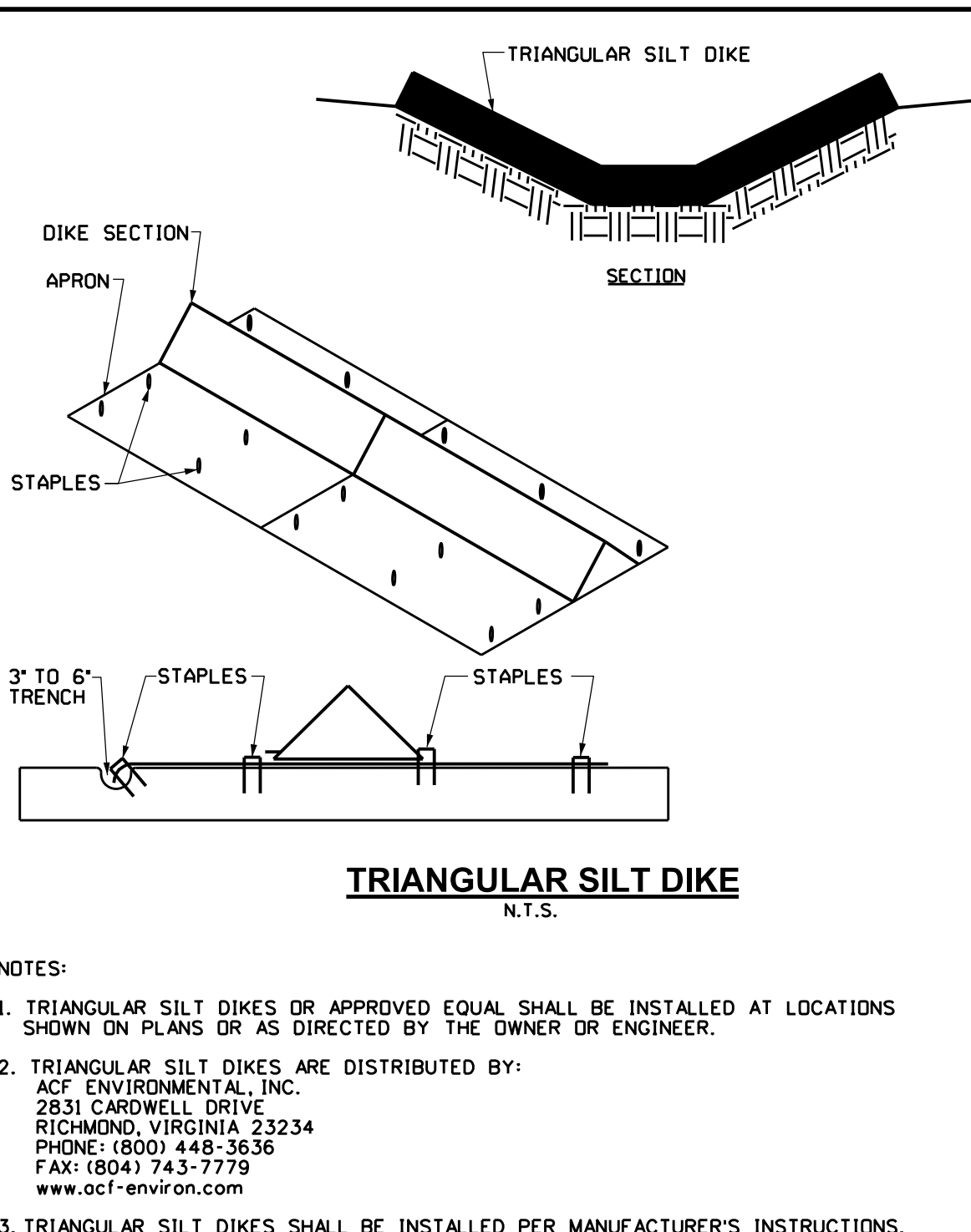
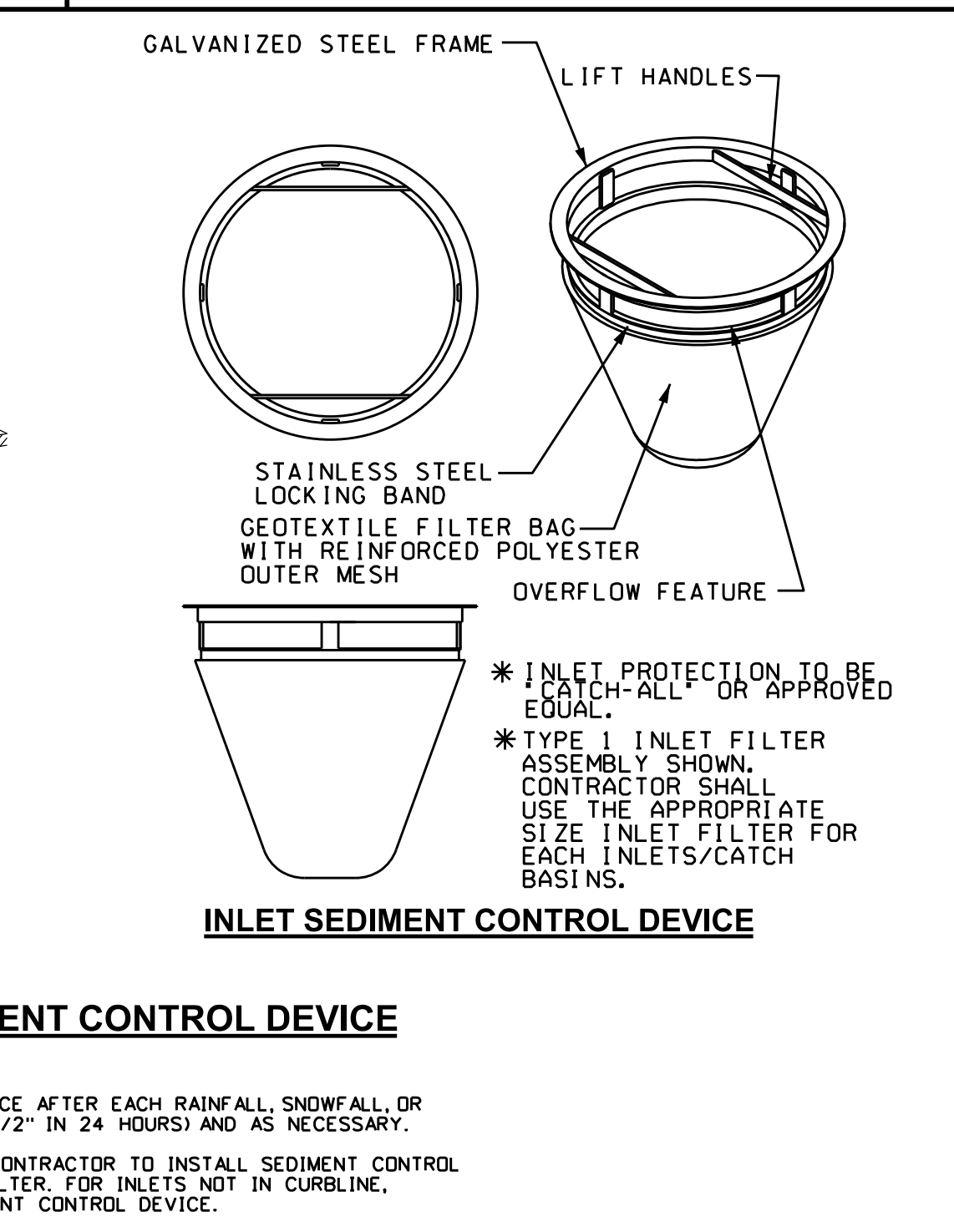
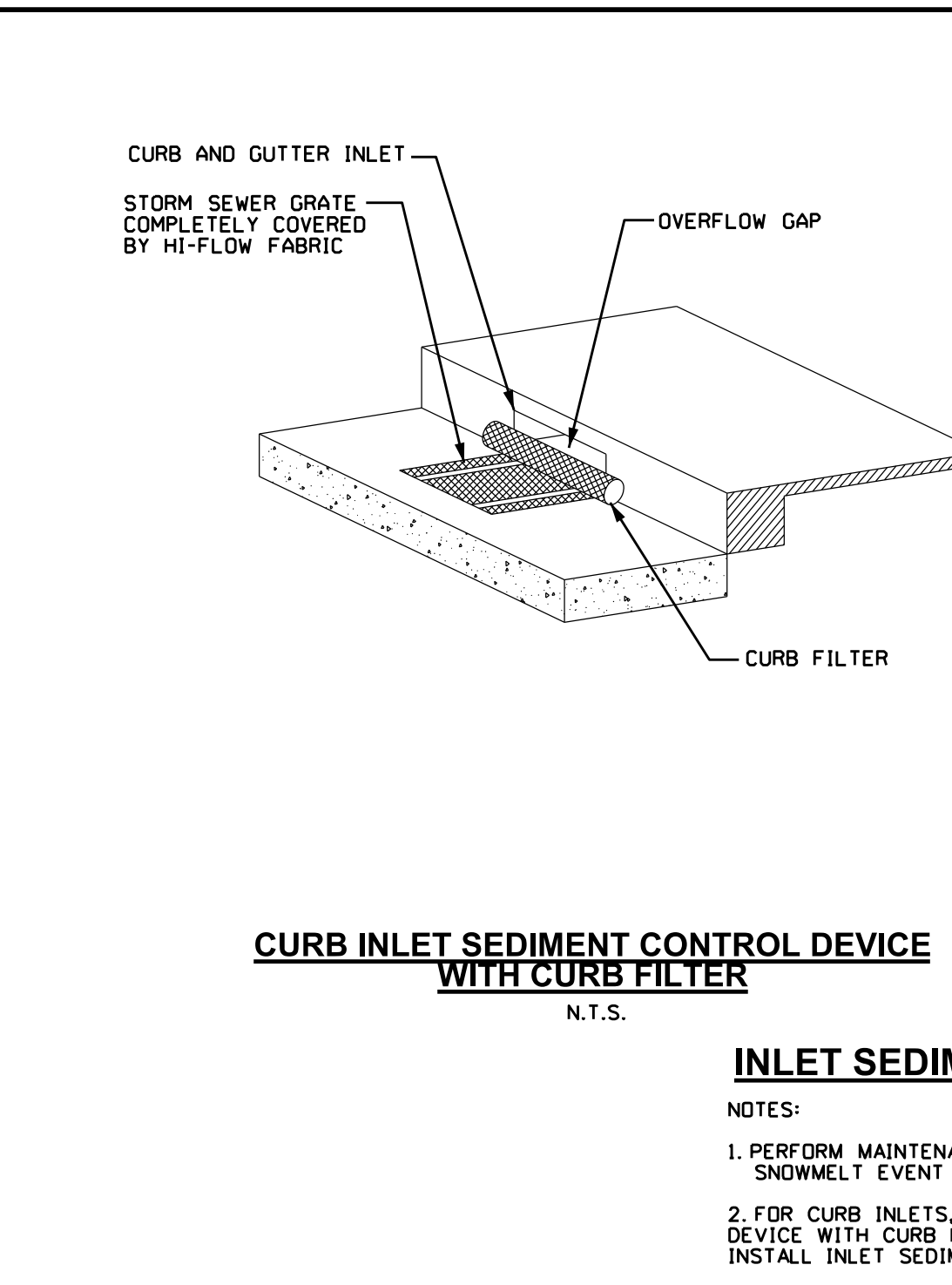
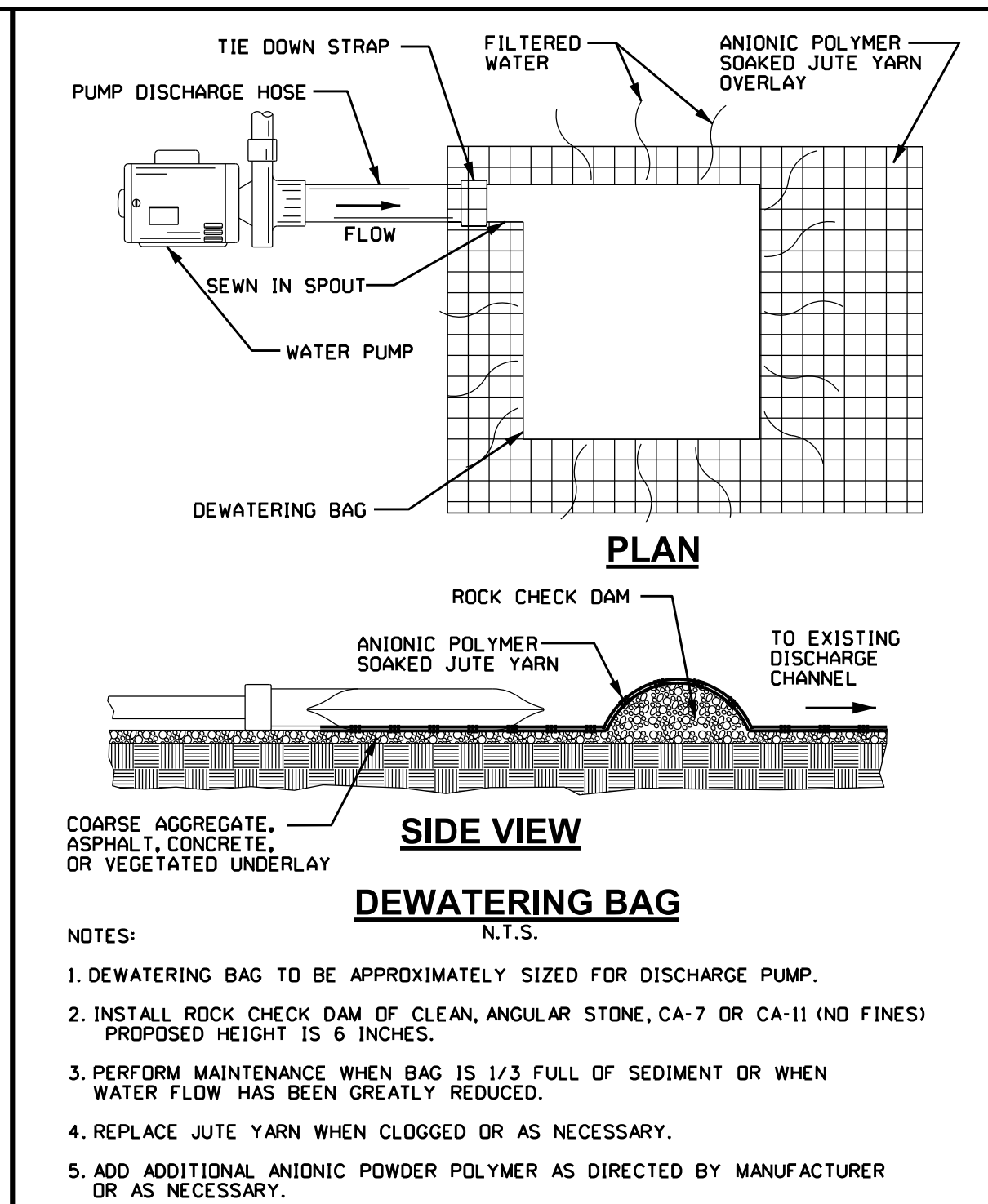
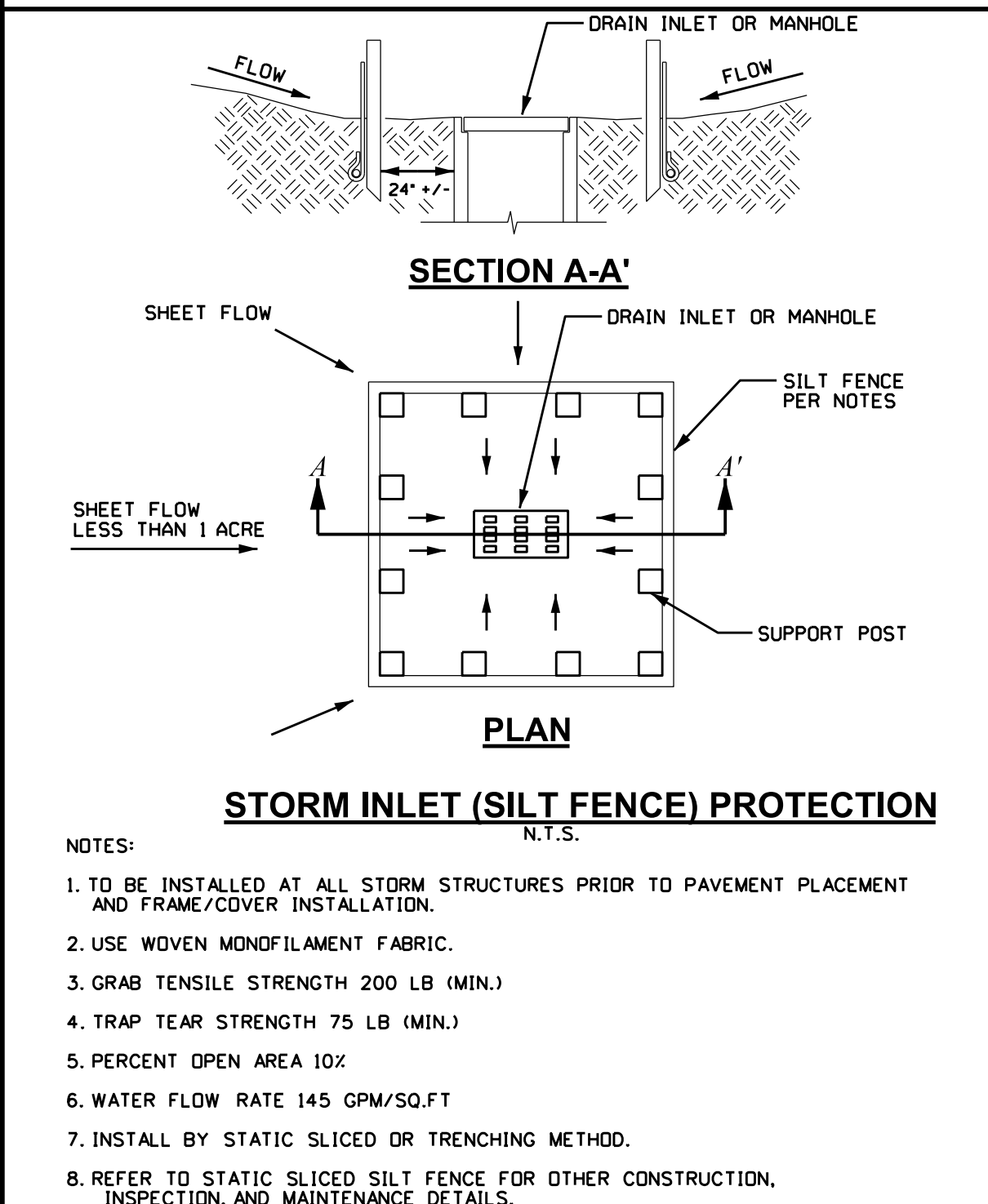
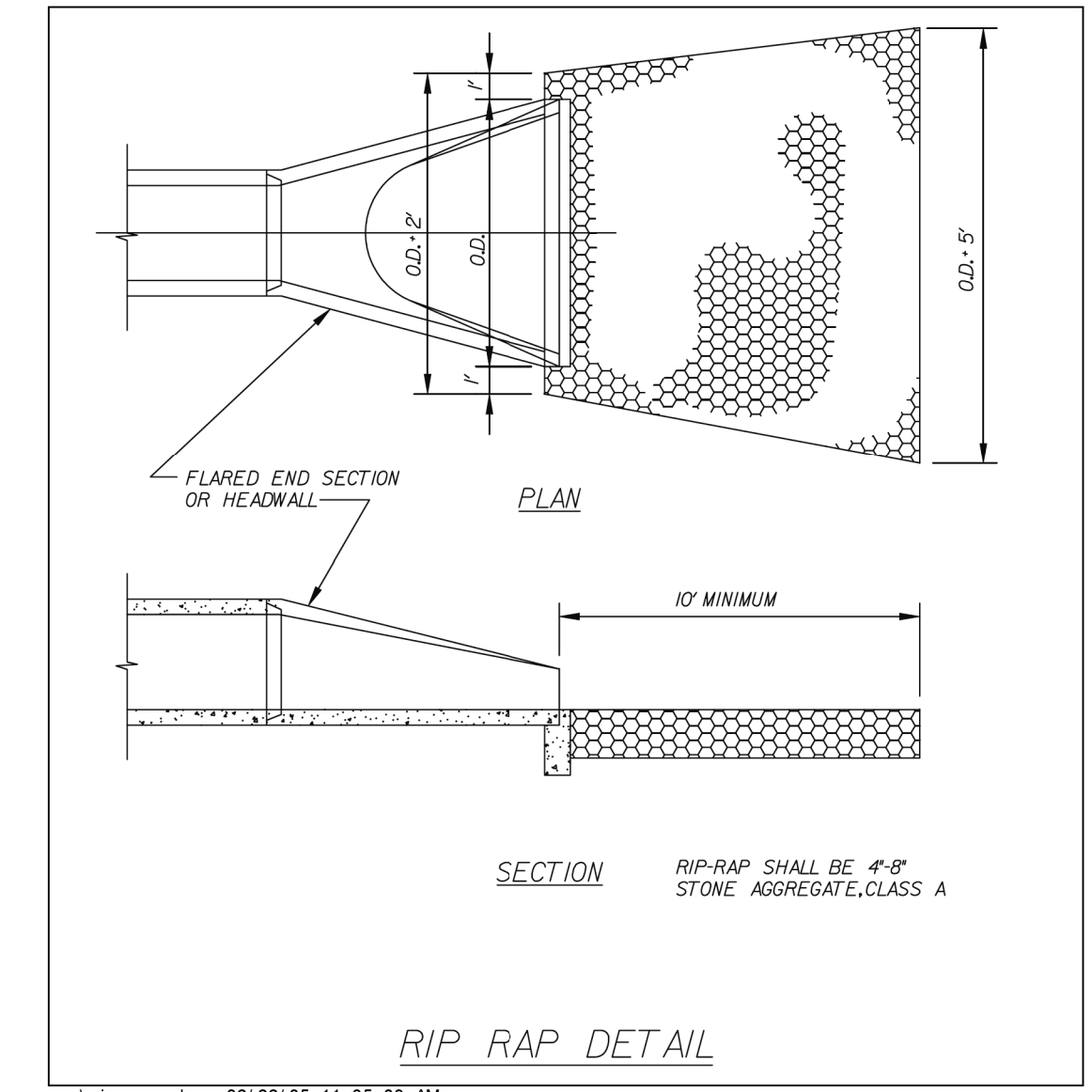
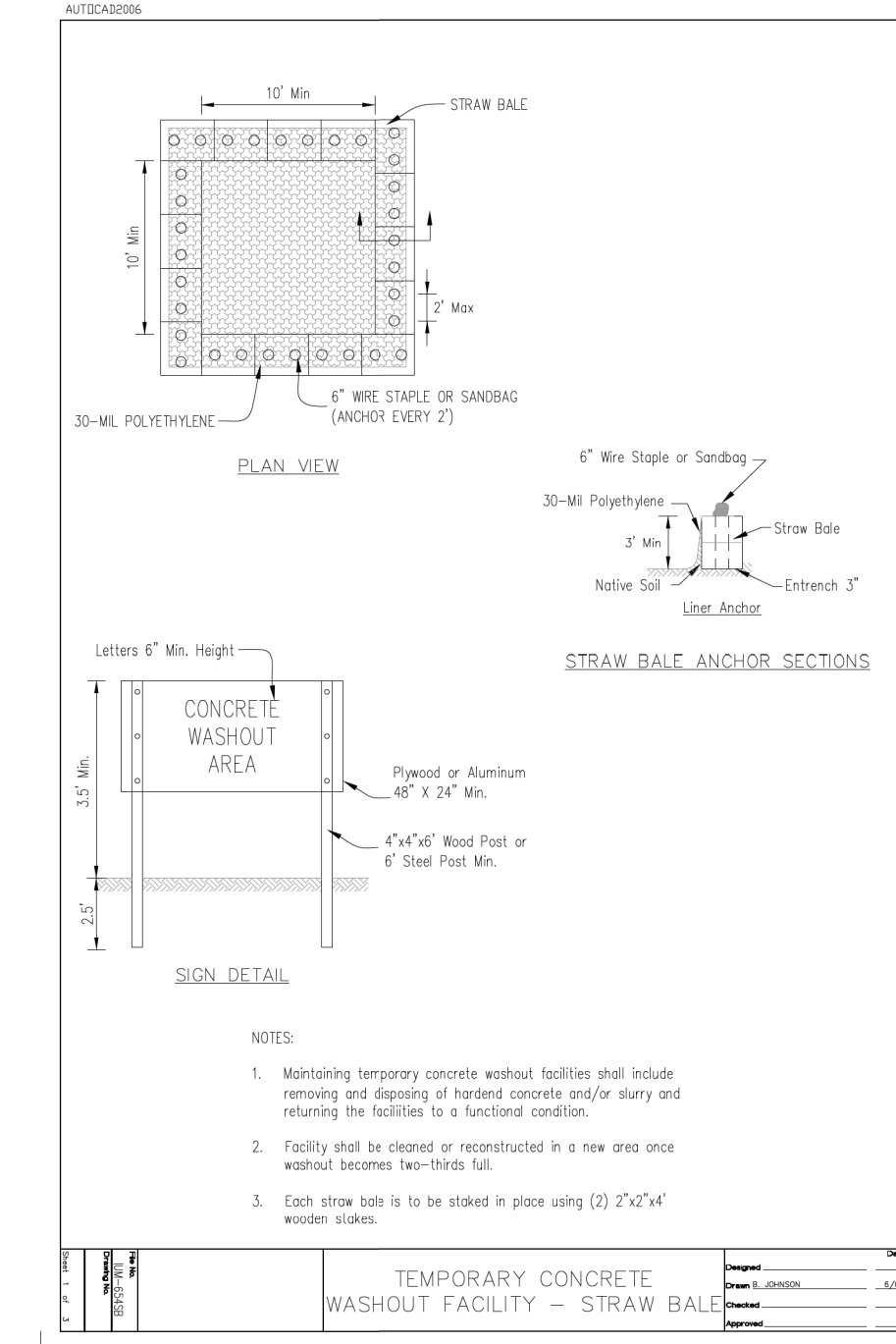
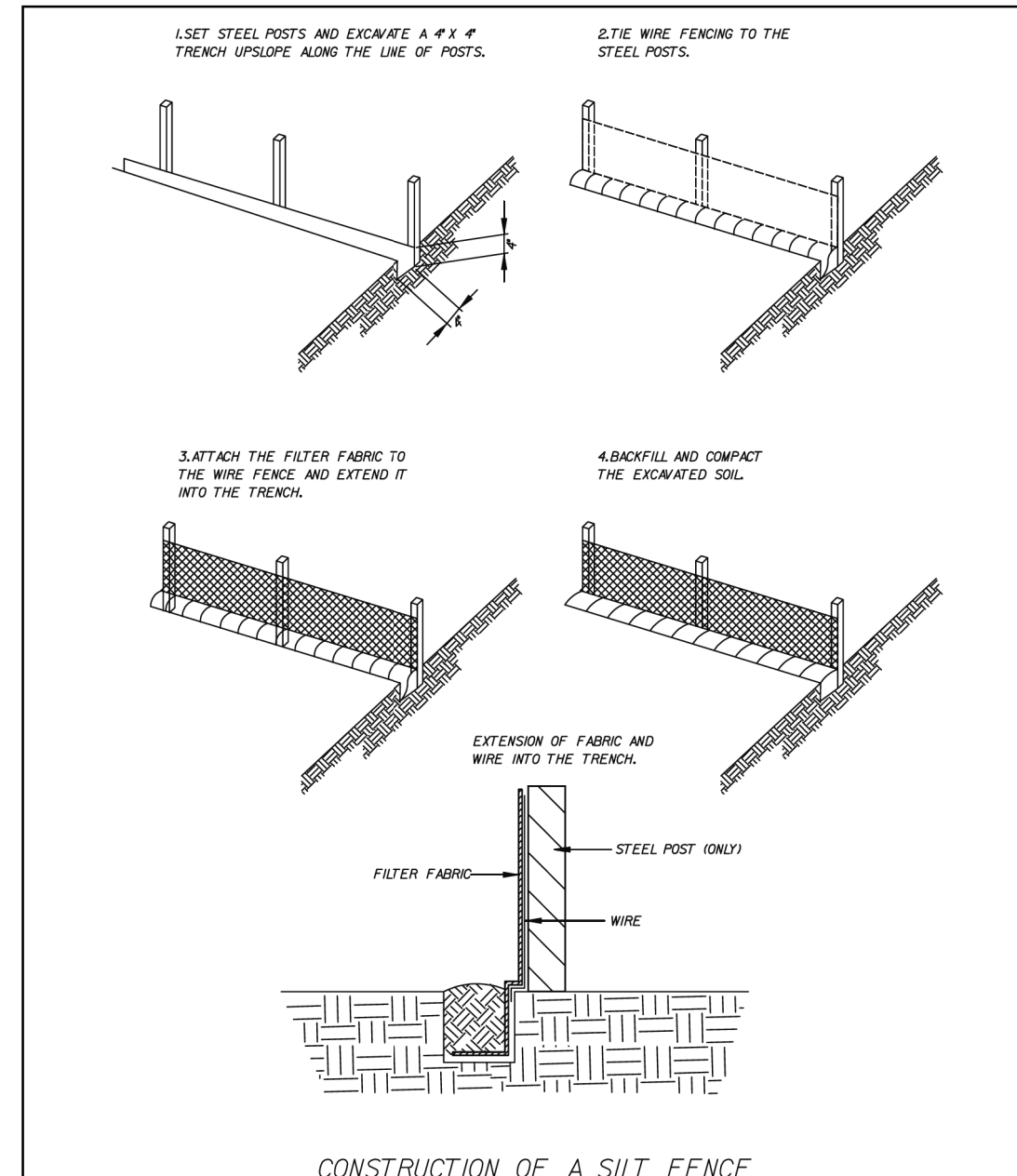
	INLET PROTECTION OR INLET SEDIMENT CONTROL DEVICE
	SILT FENCE
	STABILIZED CONSTRUCTION ENTRANCE
	TRIANGULAR SILT DIKE

REVISIONS
 GRADING, DRAINAGE AND SOIL EROSION/SEDIMENT CONTROL PLAN
 DOLLAR TREE
 LOT 1, ADVANCE AUTO SUBDIVISION
 GRAYSLAKE, ILLINOIS
 CHARLES CUI, DEVELOPER
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 P: 508.925.2620
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 E: www.smithson.com
 Prof. Design Firm Reg. #184-002793
 SCALE AS SHOWN
 DATE DECEMBER 1, 2017
 PROJECT NO. 17-014-001
 SHEET
C5

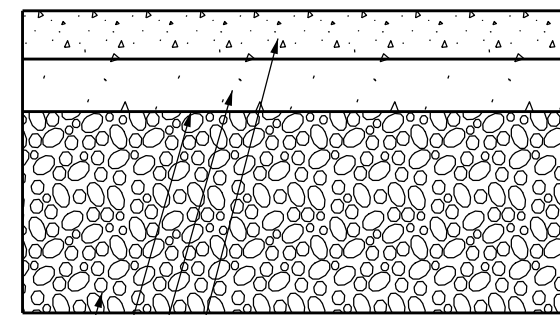
GENERAL SOIL EROSION AND SEDIMENT CONTROL NOTES

- A. CONTRACTOR SHALL LIMIT SOIL DISTURBANCE SO AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- B. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS. NO SEDIMENT SHALL BE ALLOWED TO ENTER EXISTING STORM SEWERS, PROPERTIES AND CHANNELS LOCATED DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. AT POINTS WHERE CONCENTRATION FLOW LEAVES A SITE, STABLE DOWNSTREAM FACILITIES ARE REQUIRED. STREETS ADJACENT TO THE SITE SHALL BE KEPT FREE OF DIRT, MUD, AND DEBRIS.
- C. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE, FILTERED, OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- D. SOIL EROSION CONTROL MEASURES IN ACCORDANCE WITH THESE SPECIFICATIONS SHALL BE FOLLOWED AT ALL TIMES, AND AS REQUIRED BY THE OWNER AND/OR ENGINEER, AND SHALL BE IMPLEMENTED IMMEDIATELY BY THE CONTRACTOR.
- E. UNLESS SOIL EROSION CONTROL ITEMS ARE SPECIFICALLY REFERRED TO AS BID ITEMS (SUCH AS TOPSOIL RESPREAD, SEEDING, ETC.) THEY ARE TO BE CONSIDERED INCIDENTAL TO THE COST OF THE CONTRACT.
- F. DISTURBED AREAS DRAINING LESS THAN ONE (1) ACRE SHALL BE PROTECTED BY A FILTER BARRIER (INCLUDING FILTER FENCES, OR EQUIVALENT CONTROL MEASURES) FOR ALL AREAS WHERE OFF-SITE RUNOFF WILL OCCUR. VEGETATED FILTER STRIPS, WITH A MINIMUM WIDTH OF TWENTY-FIVE (25) FEET, MAY BE USED AS AN ALTERNATIVE ONLY WHERE RUNOFF IN SHEET FLOW IS EXPECTED.
- G. DISTURBED AREAS DRAINING MORE THAN ONE (1) BUT FEWER THAN FIVE (5) ACRES SHALL BE PROTECTED BY A SEDIMENT TRAP OR EQUIVALENT CONTROL MEASURE AT A POINT DOWNSLOPE OF THE DISTURBED AREA.
- H. DISTURBED AREAS DRAINING MORE THAN FIVE (5) ACRES SHALL BE PROTECTED BY A SEDIMENT BASIN OR EQUIVALENT CONTROL MEASURE AT A POINT DOWNSLOPE OF THE DISTURBED AREA.
- I. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE, AND ANY NECESSARY CORRECTIVE ACTION ASSOCIATED WITH THE EROSION CONTROL MEASURES SO DESIGNATED. THE FOLLOWING ITEMS ARE TO BE PROVIDED BY THE CONTRACTOR.
 - 1. DITCH CHECKS SHALL BE INSTALLED AND MAINTAINED AT ALL DRIVEWAY CULVERTS, AROUND INLETS, CATCH BASINS, STORM SEWER STRUCTURES, IN SWALE AREAS, AND ALONG PROPERTY LINES PRIOR TO THE START OF CONSTRUCTION. THESE EROSION CONTROL MEASURES ARE TO BE MAINTAINED UNTIL ALL RESTORATION IS COMPLETE AND GRASS IS ESTABLISHED.
- H. SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS OF WILL COUNTY.

- J. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS WITHIN SEVEN (7) CALENDAR DAYS AT THE END OF INITIAL GROUND DISTURBANCE. PERMANENT STABILIZATION SHALL BE DONE WITHIN SEVEN (7) DAYS OF COMPLETION OF FINAL GRADING OF THE SOIL. PERMANENT SOIL STABILIZATION MEASURES SHALL BE APPLIED TO CHANNELS (INCLUDING BED AND BANKS) WITHIN FORTY-EIGHT (48) HOURS OF THE END OF PRIMARY DISTURBANCE OF THE CHANNEL. PERMANENT OR TEMPORARY VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL SUFFICIENT GROUND COVER IS MATURE ENOUGH TO CONTROL EROSION.
- K. THE COST FOR ANY AND ALL TEMPORARY SOIL STABILIZATION, INCLUDING ANY NECESSARY MAINTENANCE OF SAID SOIL STABILIZATION, SHALL BE CONSIDERED INCIDENTAL, AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED.
- L. AREAS OR EMBANKMENTS HAVING SLOPES GREATER THAN OR EQUAL TO 3 HORIZONTAL TO 1 VERTICAL AND APPROVED BY THE ENFORCEMENT OFFICER, SHALL BE STABILIZED WITH SOD, MAT OR BLANKET IN COMBINATION WITH SEEDING.
- M. UNLESS OTHERWISE INDICATED, NON-DYED, STRAW SEWN FIBER EROSION CONTROL BLANKET SHALL BE REQUIRED ON ALL INTERIOR DETENTION BASIN SIDE SLOPES BETWEEN NORMAL WATER LEVEL AND HIGH WATER LEVEL.
- N. UPON COMPLETION OF TOPSOIL RESPREAD OPERATIONS, ALL DISTURBED AREAS SHALL BE SEEDDED, SODDED, OR LANDSCAPED AS NOTED ON THE PLANS.
- O. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED.
- P. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
- Q. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).
- R. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL OR VILLAGE OR COUNTY MINIMUM STANDARDS AND SPECIFICATION, WHICH EVER IS MORE STRINGENT.
- S. A COPY OF THE APPROVED AND UPDATED NPDES PERMIT, SWPPP, AND EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- T. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE MINIMUM REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES TO THOSE SHOWN ON THESE PLANS NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER, OWNER, OR GOVERNING AGENCY.
- U. IF HORIZONTAL DIRECTIONALLY DRILL PIPE INSTALLATIONS ARE PART OF THE PROJECT, THEN SILT FENCE SHALL BE PLACED AROUND THE PERIMETER OF BORE HOLE (COST INCIDENTAL).

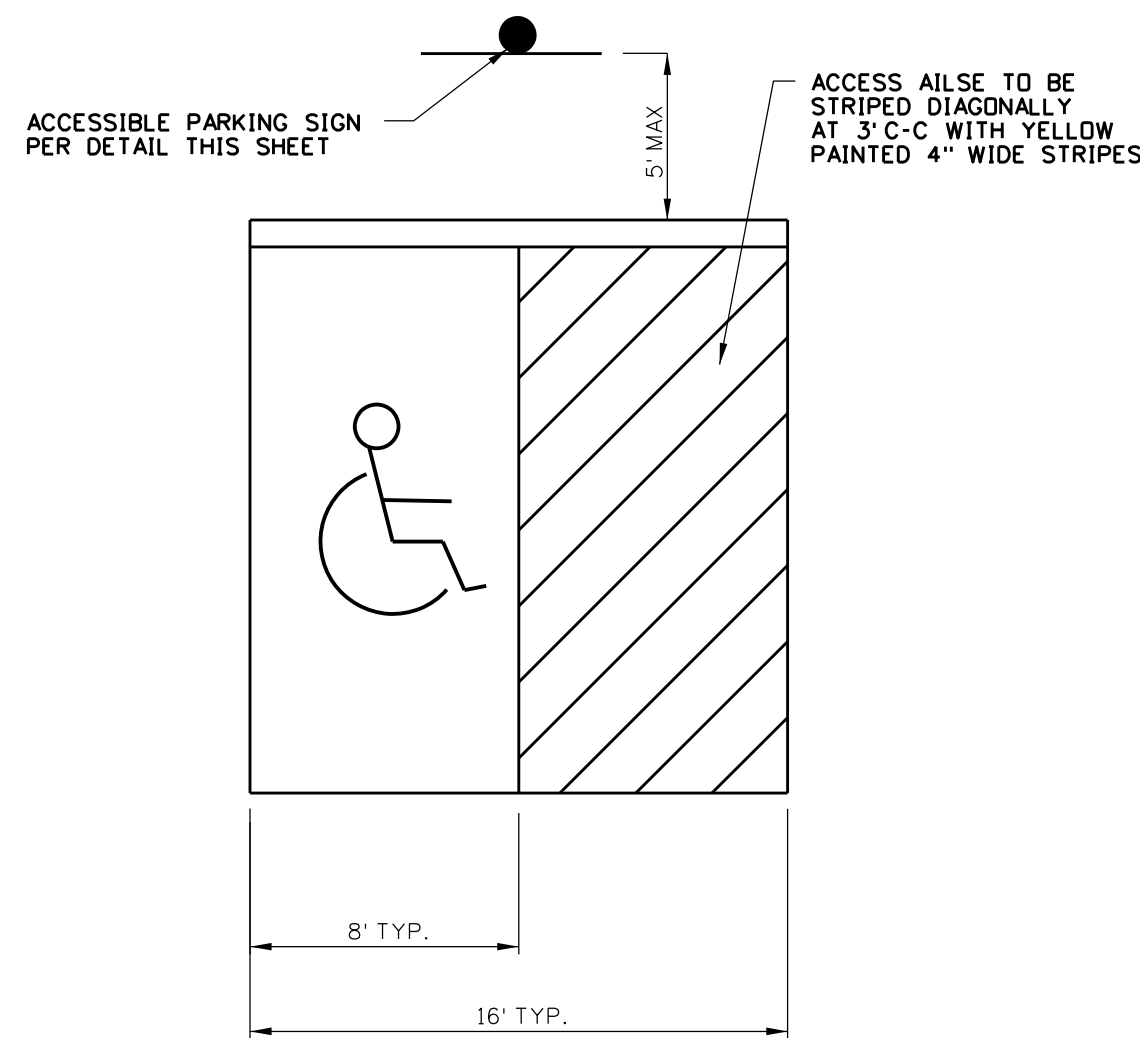


REVISIONS
SOIL EROSION/SEDIMENT CONTROL DETAILS
DOLLAR TREE
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 W: www.curtissmithson.com
 Prof. Design Firm Reg. #184-002793
 SCALE AS SHOWN
 DATE DECEMBER 1, 2017
 PROJECT NO. 17-014-001
 SHEET C6



- 1-1/2" HOT MIX ASPHALT SURFACE COURSE
- 2-1/4" HOT MIX ASPHALT BINDER COURSE
- BITUMINOUS PRIME COAT (0.30 GAL./SY.)
- 8" AGGREGATE BASE COURSE, TYPE B, CA-6, GRADE 8 OR GRADE 9

TYPICAL PARKING LOT PAVEMENT SECTION
N.T.S.



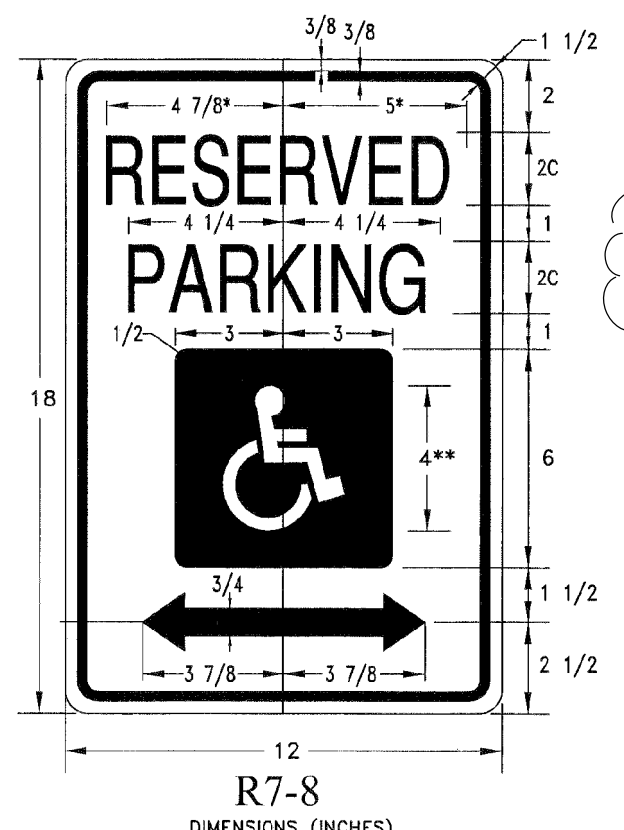
NOTE: ALL ACCESSIBLE PARKING STALL STRIPING SHALL BE IN ACCORDANCE WITH THE ILLINOIS ACCESSIBILITY CODE.

ACCESSIBLE PARKING STALL
N.T.S.

Section 400. ILLUSTRATION C "Parking Sign"
HANDICAPPED PARKING SIGN

Effective January 1, 1985, Public Act 83-1316 amended Sec. 11-301 of "The Illinois Vehicle Code" to require Handicapped Parking Signs for parking lots subject to "The Illinois Vehicle Code" to comply with R-7-8 sign shown below (U.S. Department of Transportation Standard). Existing signs may remain, but their useful lives shall not be extended by other means than normal maintenance.

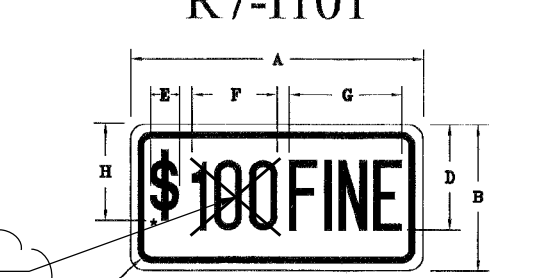
Note: This is a standard sign and may be ordered from any traffic sign supplier by number. The arrow should be omitted where there is only one space. The sign shall be placed in the center of the space. The sign shall be placed in the center of the space. The sign shall be placed in the center of the space.



COLORS
LEGEND AND BORDER-PANTONE 340C * REDUCE SPACING 50%
WHITE SYMBOL ON PANTONE 286 BACKGROUND
BACKGROUND-WHITE

Section 400. ILLUSTRATION D "100 Fine" Sign
ILLINOIS STANDARD R7-1101

Reproduced with permission from the American National Standards Institute.

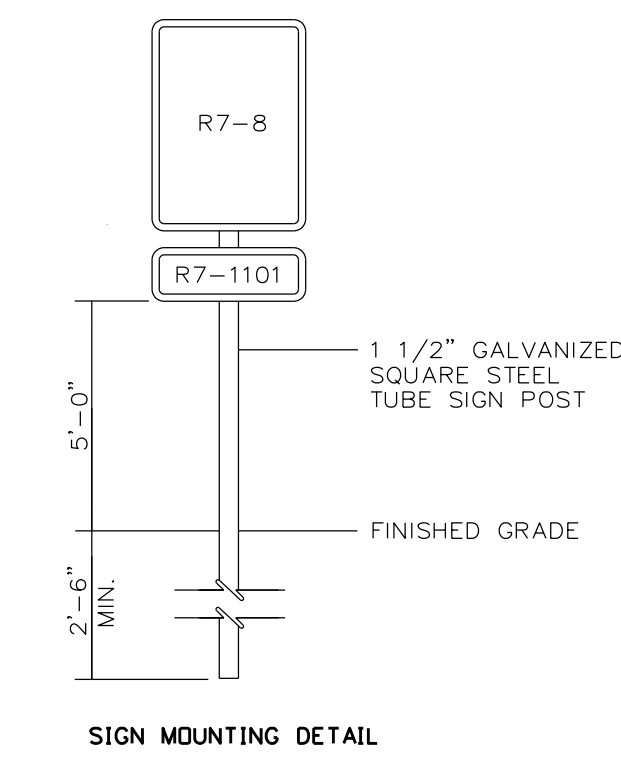


SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	H
12 x 6	12.0	6.0	1.5	4.5	1.19	3.53	4.6	4.0

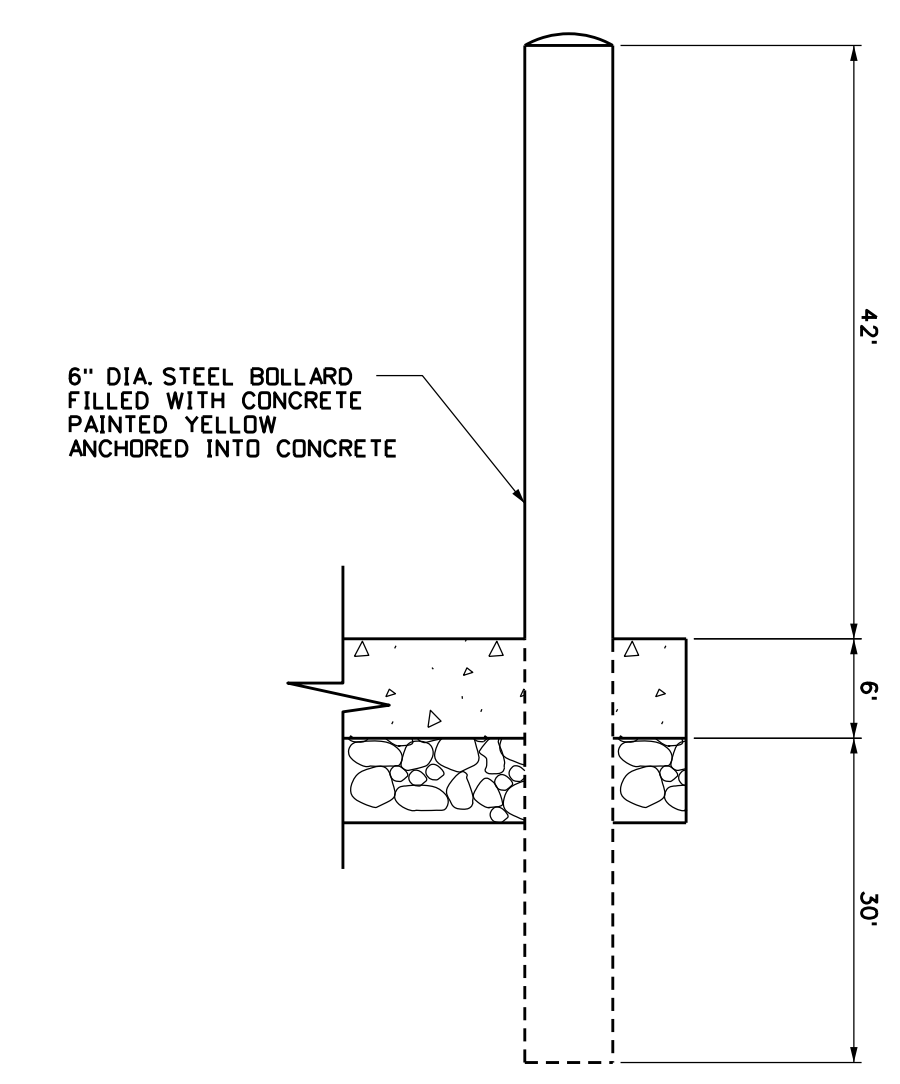
LEGEND AND BORDER-PANTONE 340C * REDUCE SPACING 50%
WHITE SYMBOL ON PANTONE 286 BACKGROUND
BACKGROUND-WHITE

Where a fine in excess of \$100 is established by a Municipality By Ordinance in accordance with the statutes, the actual amount of the fine should be shown. This plate may be mounted directly below the R7-8 sign or combined with that sign on a single 12-inch by 24-inch panel.

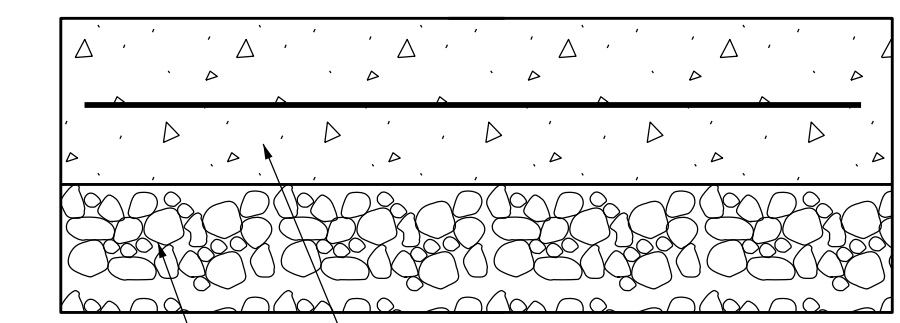
ACCESSIBLE PARKING SIGN DETAIL
N.T.S.



SIGN MOUNTING DETAIL
N.T.S.

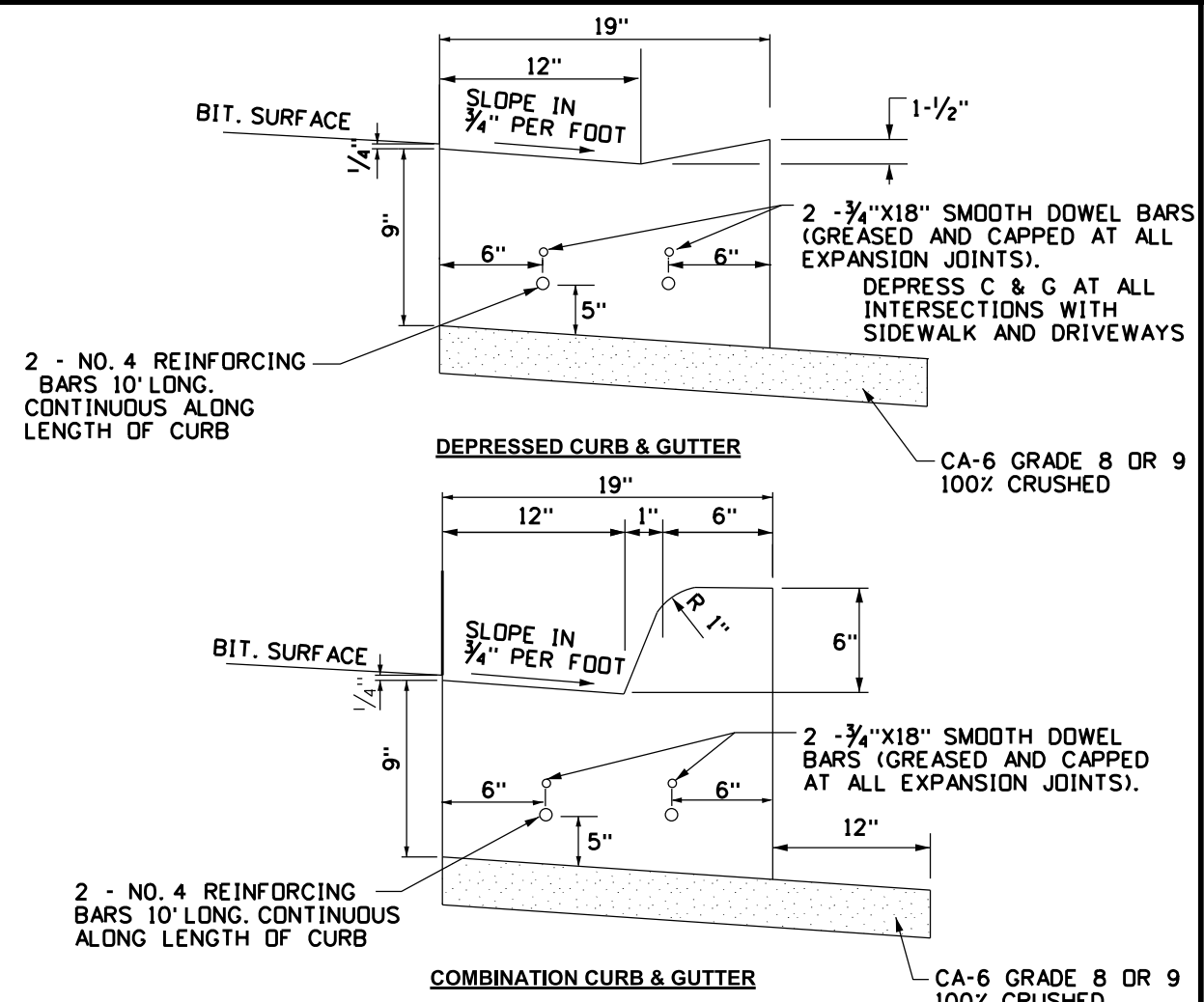


BOLLARD DETAIL
N.T.S.



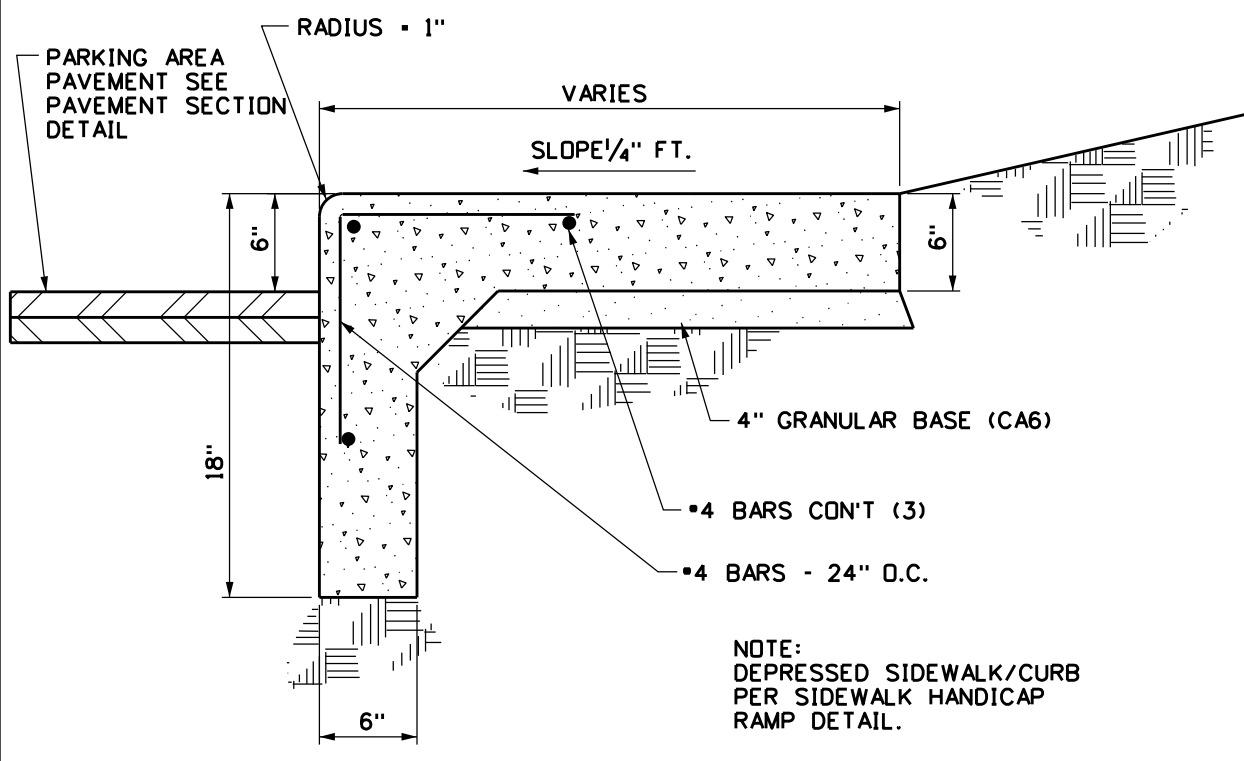
- 6" THICK PORTLAND CEMENT CONCRETE W/ 6" X 6" WELDED WIRE FABRIC
- 4" AGGREGATE BASE COURSE CA-6 GRADE 8 OR 9

REINFORCED CONCRETE PAVEMENT
N.T.S.



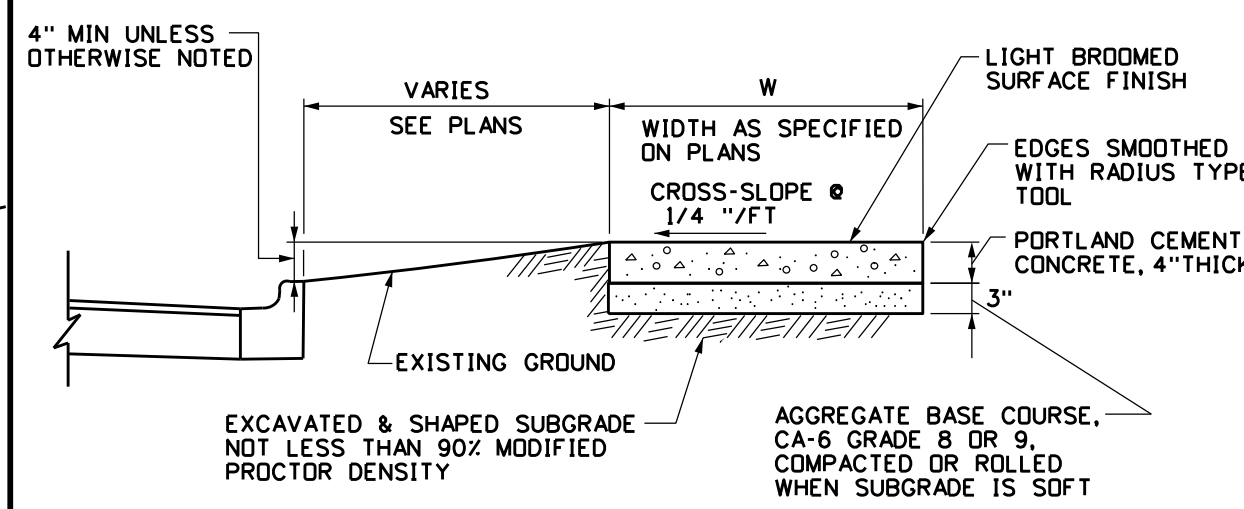
NOTES:
1. CONTRACTION JOINTS SHALL BE PLACED TWENTY FEET INTERVALS (MAXIMUM) AND SHALL BE SAW CUT TO A DEPTH OF 3 1/2 INCHES WITHIN 24 HOURS OF CONCRETE PLACEMENT.
2. EXPANSION JOINTS SHALL BE INSTALLED FIVE FEET EACH SIDE OF CURB INLETS, AT ALL P.C.'S AND P.T.'S, AT 60 FOOT INTERVALS AND AT THE END OF EACH DAYS POUR.
3. CONCRETE SHALL BE CLASS SI AND IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS.
4. EXPANSION MATERIAL SHALL BE 3/4" PREFORMED IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS.
5. CONCRETE TO BE CURED IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS.
6. REVERSE PITCH CURB AND GUTTER SHALL SLOPE 3/4" PER FOOT AWAY FROM FACE OF CURB IN AREAS INDICATED ON PLANS.

CURB AND GUTTER - B6.12
N.T.S.



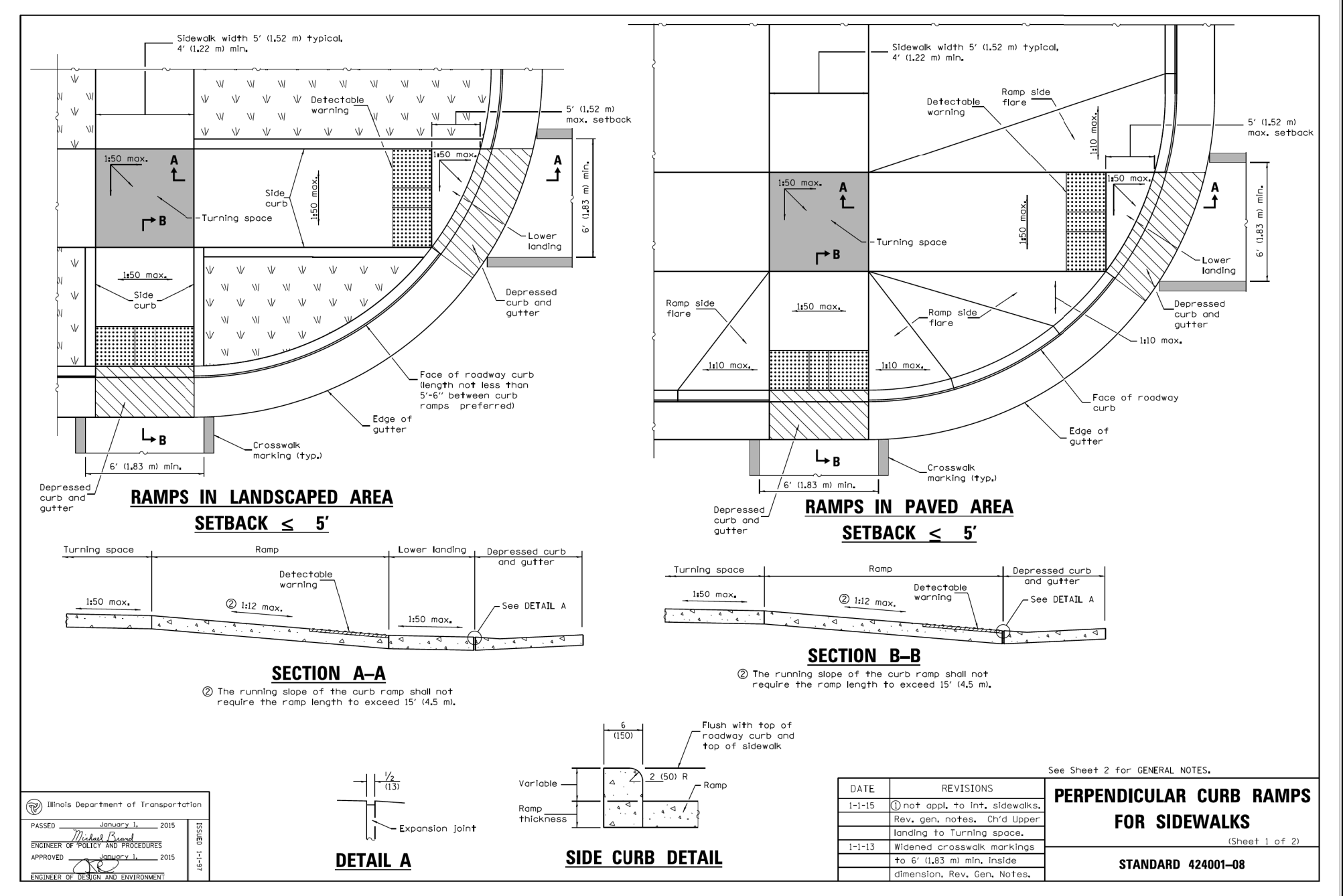
NOTE: DEPRESSED SIDEWALK/CURB PER SIDEWALK HANDICAP RAMP DETAIL.

INTEGRAL CURB AND SIDEWALK
N.T.S.

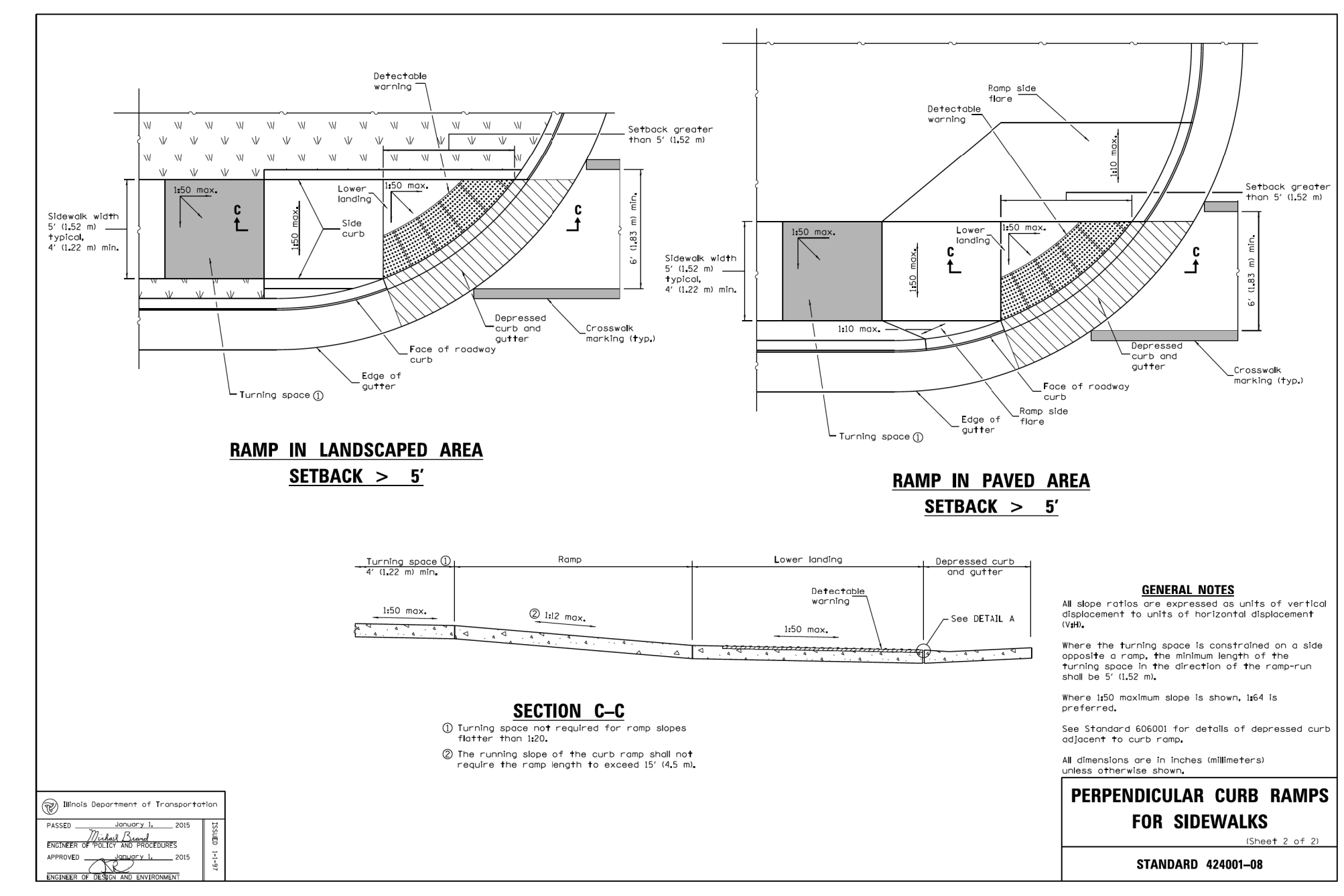


GENERAL NOTES:
1. AT LOCATIONS WHERE SIDEWALK IS SUBJECTED TO WHEEL TRAFFIC AND/OR CONSTRUCTED ACROSS ACCESS DRIVE ENTRANCES, THE NEW P.C.C. SIDEWALK SECTION SHALL BE THICKENED TO 6" ACROSS THE WIDTH OF THE DRIVEWAY. THIS WORK SHALL BE CONSIDERED AS INCIDENTAL, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
2. PLACING, FINISHING AND CURING OF P.C.C. SIDEWALK SHALL MEET THE REQUIREMENTS OF SECTIONS 624 & 625 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. USE 6 1/2 BAG MIX WITH 4% AIR ENTRAINMENT.
3. SLAB OR PANEL CONTRACTION (CONTROL) JOINTS SHALL BE AS FOLLOWS:
FOR 4' SIDEWALK WIDTH - 6" O.C. JOINT SPACING
5' SIDEWALK WIDTH - 5" O.C. JOINT SPACING
6' SIDEWALK WIDTH - 6" O.C. JOINT SPACING
8' SIDEWALK WIDTH - 8" O.C. JOINT SPACING
4. TRANSVERSE EXPANSION JOINTS SHALL CONSIST OF PREFORMED JOINT FILLER OF THICKNESS AS FOLLOWS:
1/2" BETWEEN SIDEWALK AND STRUCTURES, STANDARDS, POLES
3/4" AT SIDEWALK INTERVALS OF NOT MORE THAN 50 FEET & ABUTTING CONCRETE CURBING OR PAVEMENT.
5. IF EXCAVATION OR UNDERCUTTING OF SUBGRADE HAS BEEN MADE DEEPER THAN NECESSARY, THE BASE SHALL BE BROUGHT TO PROPER GRADE BY THE ADDITION OF WELL COMPACTED BEDDING MATERIAL WITHOUT ANY EXTRA COMPENSATION DUE THE CONTRACTOR.

TYPICAL SECTION - P.C.C. SIDEWALK
N.T.S.



DATE	REVISIONS
11-10-10	REVISED TO ADD TO LIST SIDEWALKS
11-10-10	REVISED TO ADD TO LIST SIDEWALKS
11-10-10	REVISED TO ADD TO LIST SIDEWALKS
11-10-10	REVISED TO ADD TO LIST SIDEWALKS

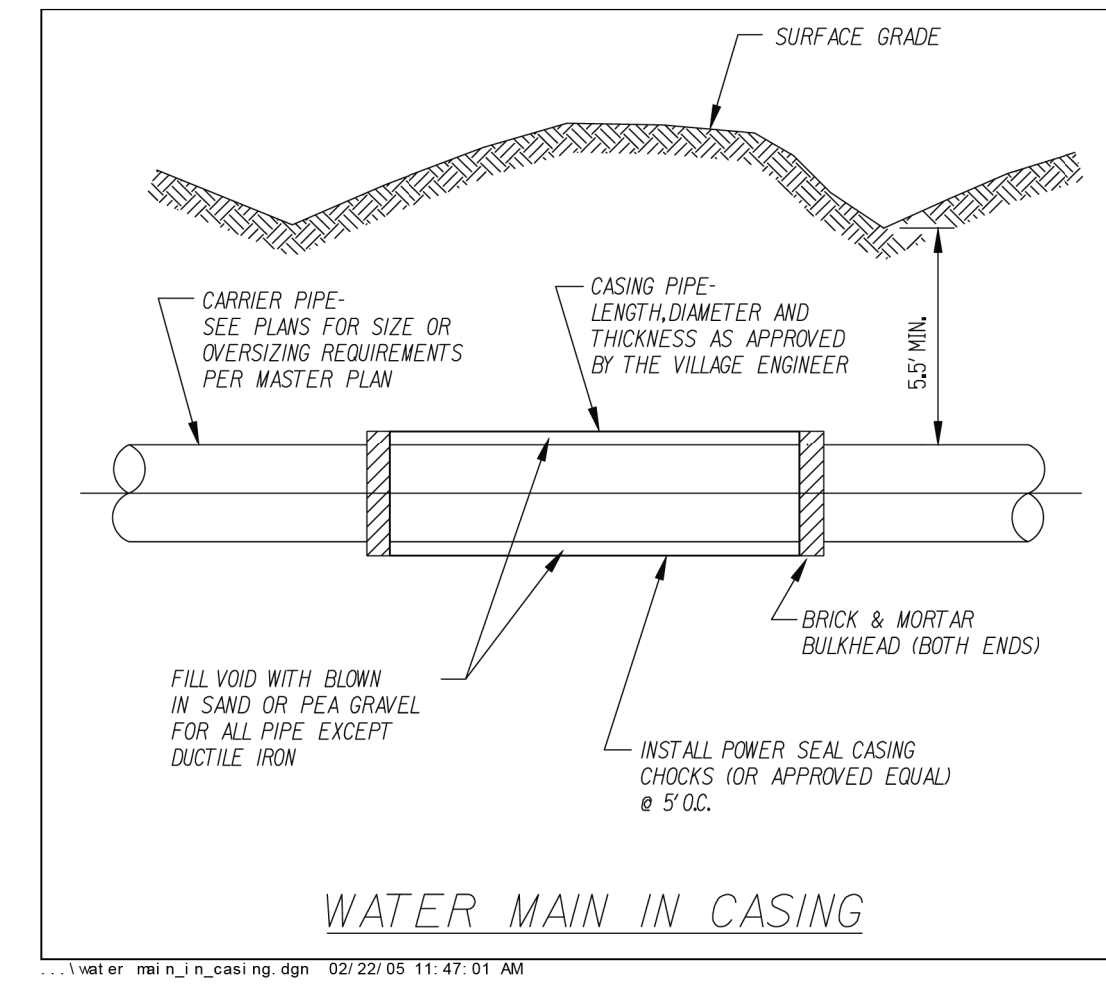
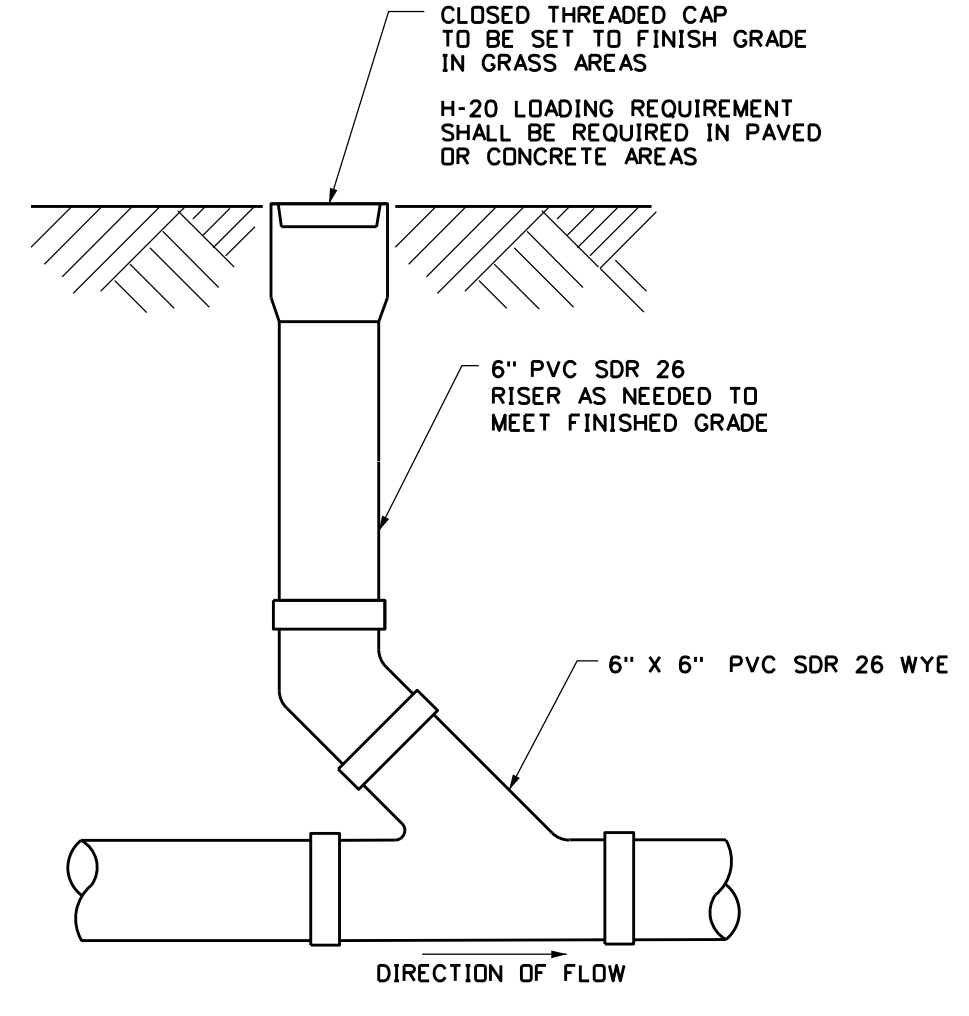
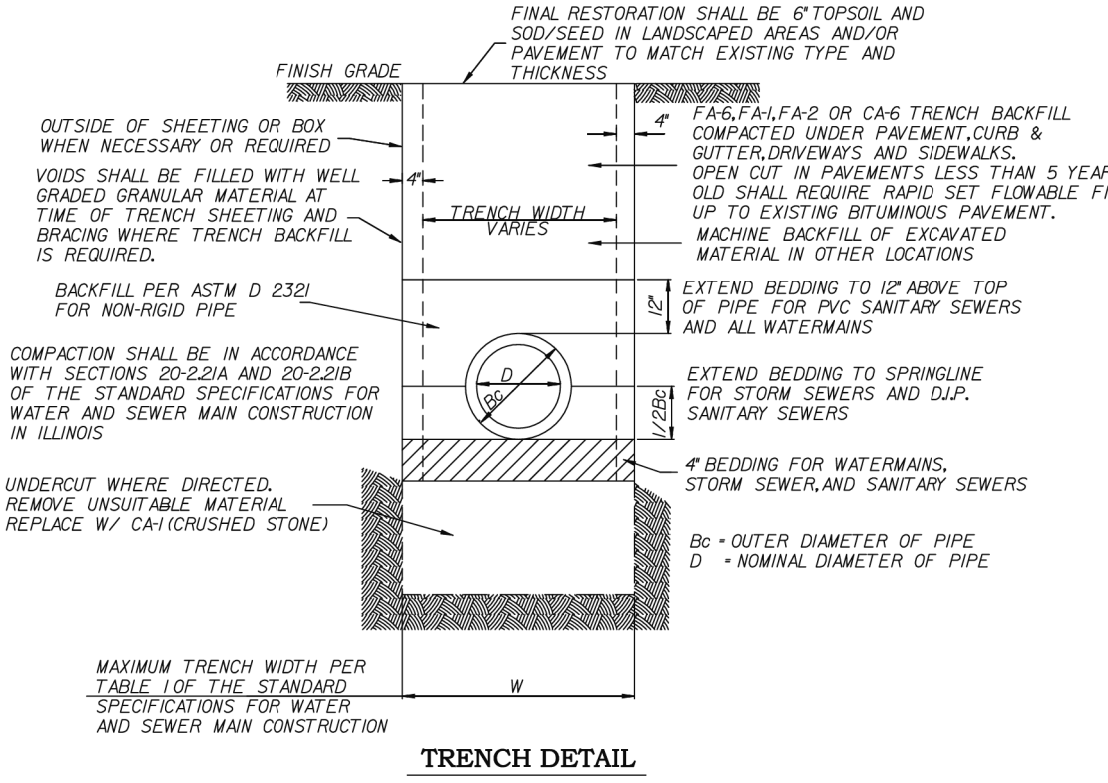


DATE	REVISIONS
11-10-10	REVISED TO ADD TO LIST SIDEWALKS
11-10-10	REVISED TO ADD TO LIST SIDEWALKS
11-10-10	REVISED TO ADD TO LIST SIDEWALKS
11-10-10	REVISED TO ADD TO LIST SIDEWALKS

REVISIONS
CONSTRUCTION DETAILS

DOLLAR TREE
LOT 1, ADVANCE AUTO SUBDIVISION
GRAYSLAKE, ILLINOIS
CHARLES CUI, DEVELOPER

Smithson Associates, Inc.
2 Alkens Road
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W: www.smithson.com
Prof. Design Firm Reg. #184-002793
SCALE AS SHOWN
DATE DECEMBER 1, 2017
PROJECT NO. 17-014-001
SHEET C7



THRUST BLOCK DETAIL

N.T.S.

MINIMUM 1'-0" INTO UNDISTURBED EARTH.

90° ELBOW

TEES

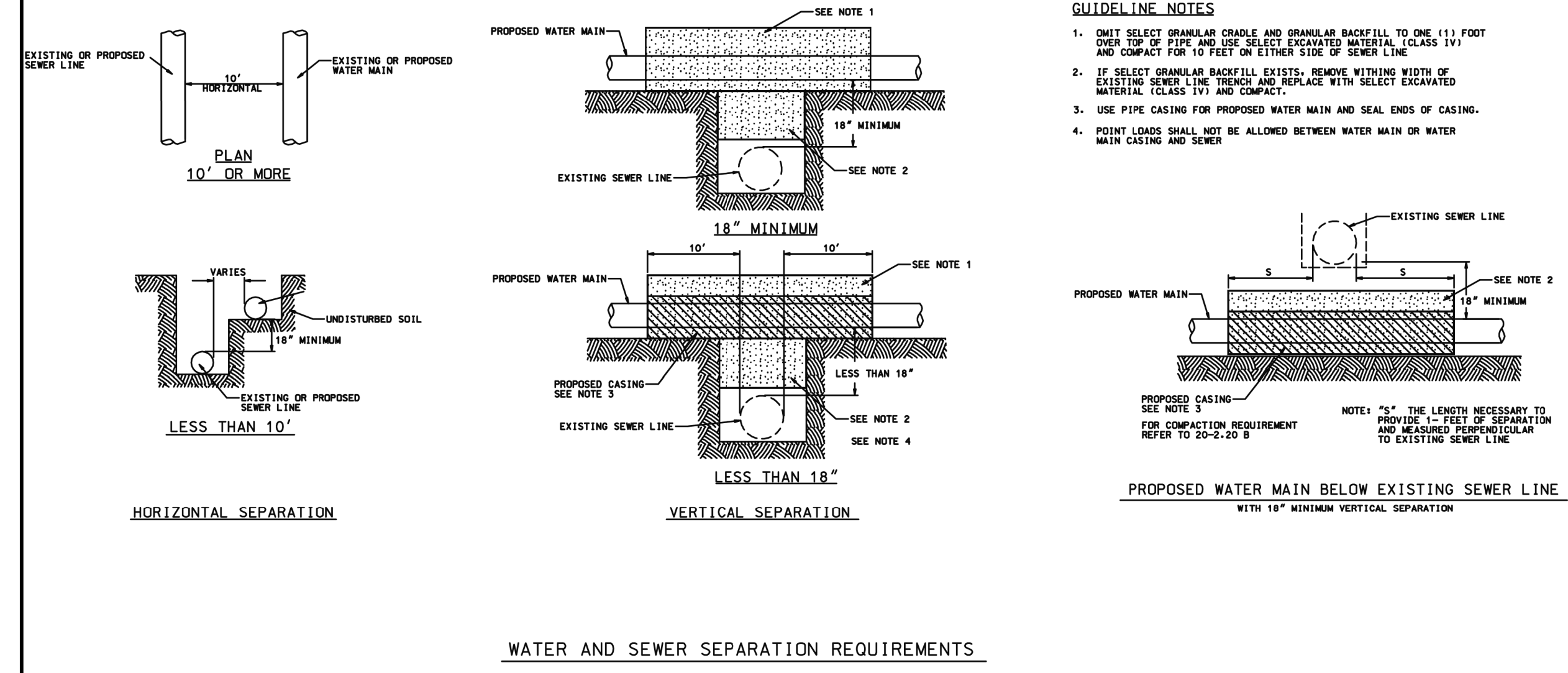
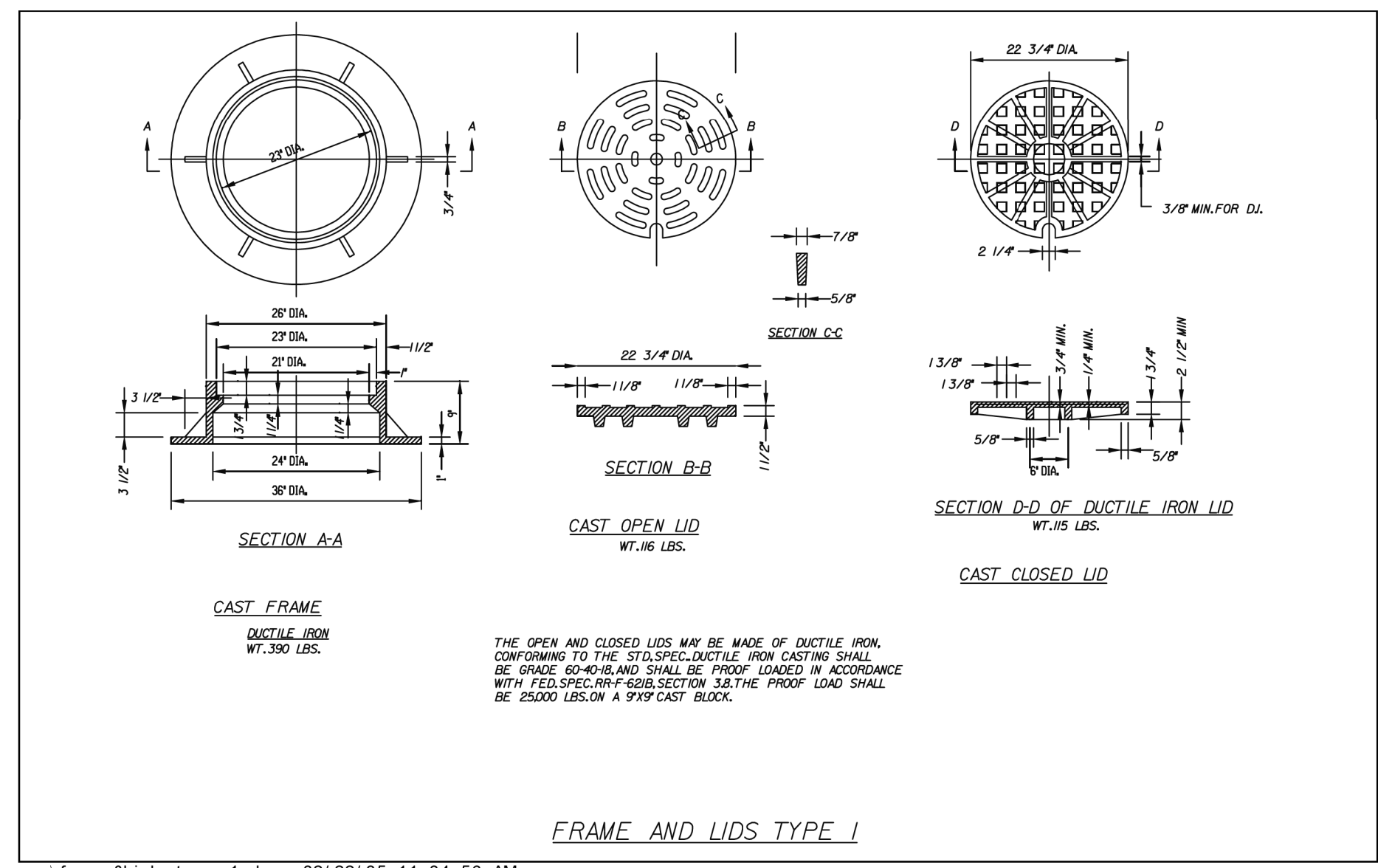
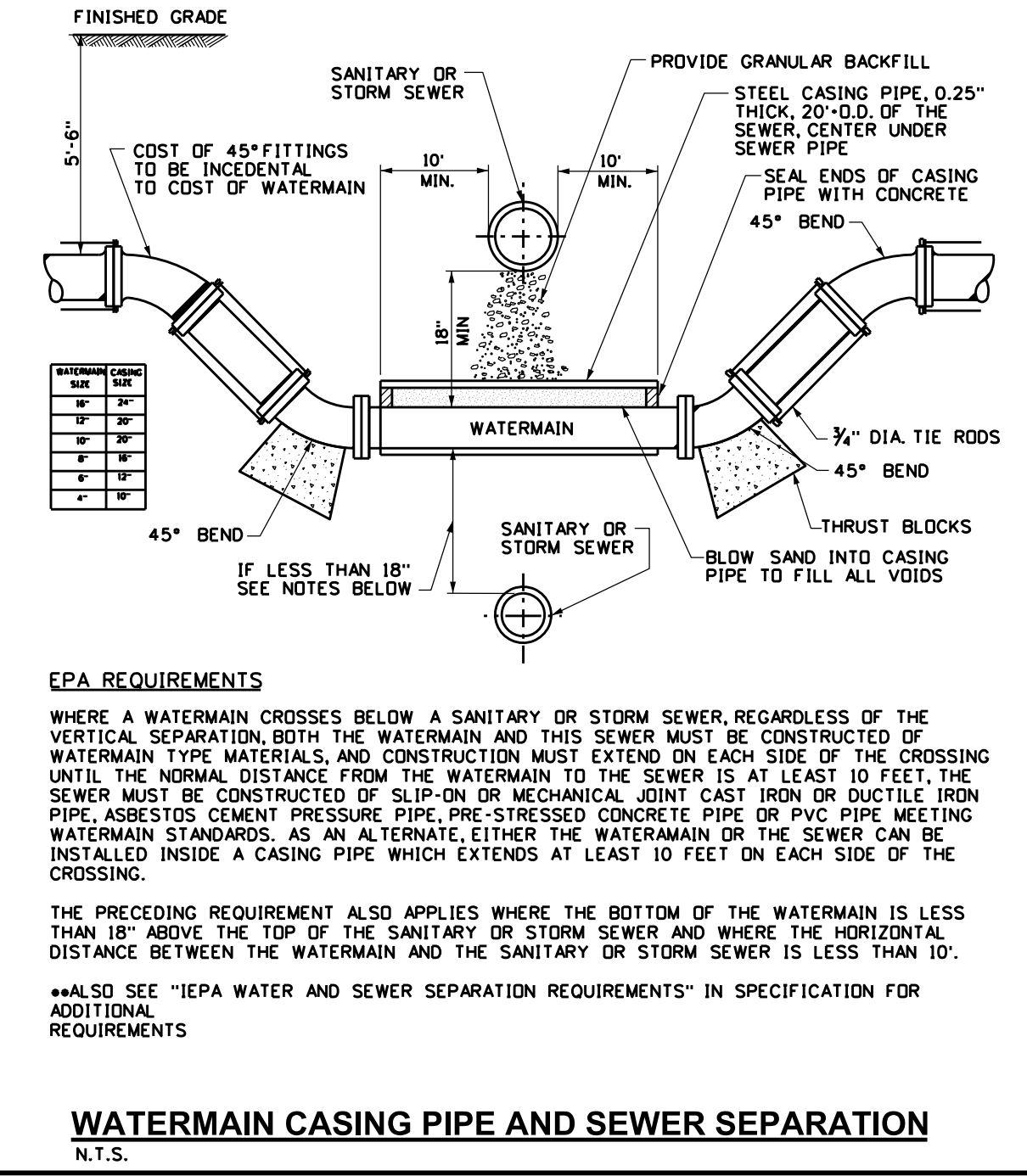
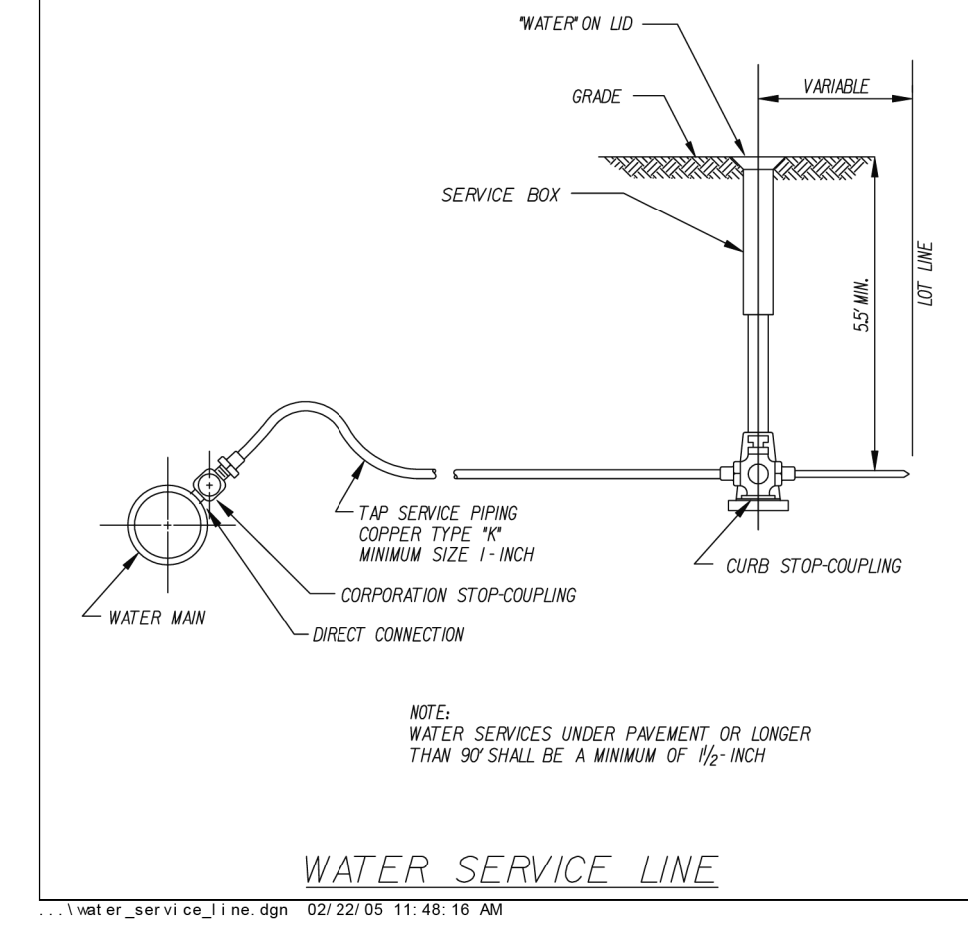
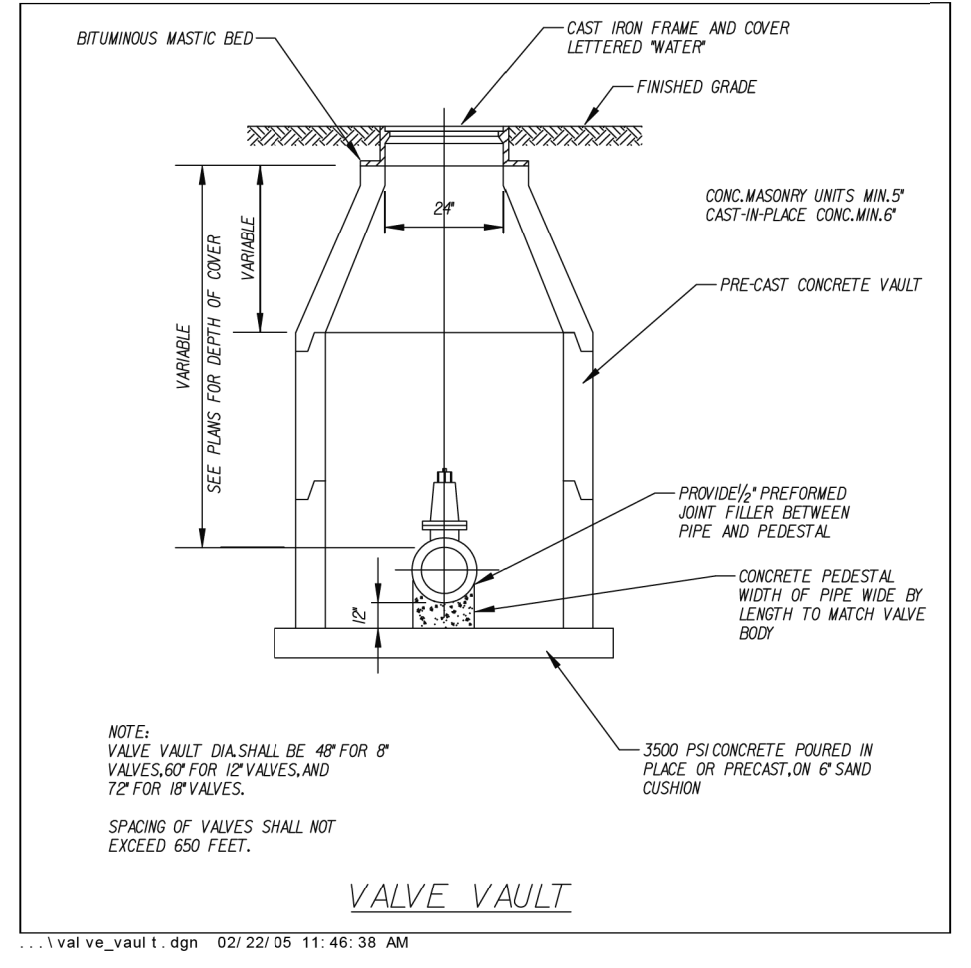
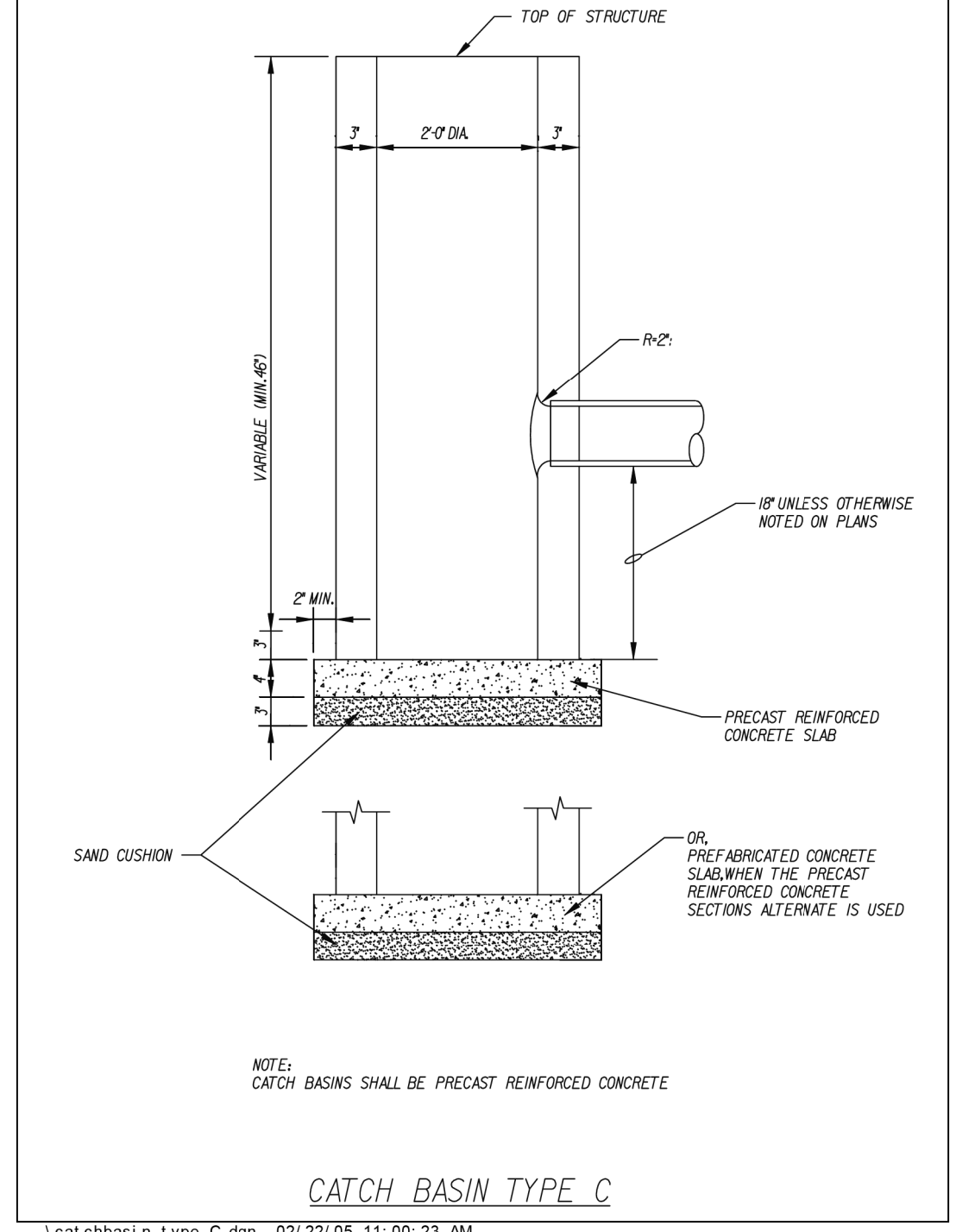
1'-0" MIN. INTO UNDISTURBED EARTH.

SECTION A

NOTES:

- PROVIDE THRUST BLOCKING TO PREVENT MOVEMENT OF LINES UNDER PRESSURE AT BENDS, TEES, CAPS, VALVES, HYDRANTS, AND AT POINTS SPECIFIED BY THE ENGINEER.
- ALL BLOCKING SHALL BE WITH POURED CLASS SI (3000 PSI) CONCRETE A MINIMUM OF 12" THICK PLACED AGAINST UNDISTURBED EARTH SURFACE AND FITTING.
- DIMENSIONS OF THRUST BLOCKS ARE BASED ON 2000PSF SOIL BEARING CAPACITY WORKING PRESSURE OF 100 PSIG AND A SAFETY FACTOR OF 1.5.
- ALL BLOCKING SHALL BE POURED INTO UNDISTURBED EARTH.
- ALL BENDS OR ELBOWS OF 1/4" OR GREATER SHALL HAVE THRUST BLOCKING.
- IF ADEQUATE UNDISTURBED BEARING AREA CANNOT BE OBTAINED, USE CONCRETE THRUST BLOCKS IN COMBINATION WITH RESTRAINED AND/OR TIED JOINTS.
- THE COST OF THE THRUST BLOCKS OR RETAINER GLANDS SHALL BE INCLUDED IN THE COST OF THE WATERMAIN AND FITTINGS.
- THRUST BLOCKS SHALL BE ANCHORED IN SUCH A MANNER THAT PIPE AND FITTINGS WILL BE ACCESSIBLE FOR REPAIRS.

PIPE SIZE	DEGREE OF BEND	MINIMUM CONCRETE THRUST BLOCK DIMENSIONS (FEET)											
		15"	18"	24"	30"	36"	42"	48"	54"	60"	72"	84"	96"
6"	90°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	45°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
8"	90°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	45°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
10"	90°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	45°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
12"	90°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	45°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
14"	90°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	45°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
16"	90°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	45°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
18"	90°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	45°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
20"	90°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	45°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
24"	90°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	45°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5



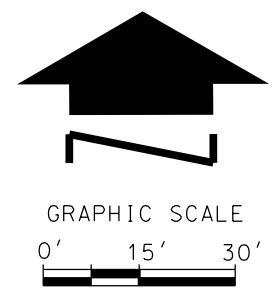
REVISIONS

CONSTRUCTION DETAILS

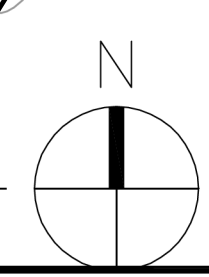
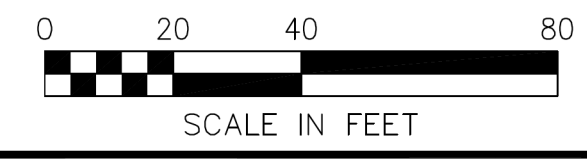
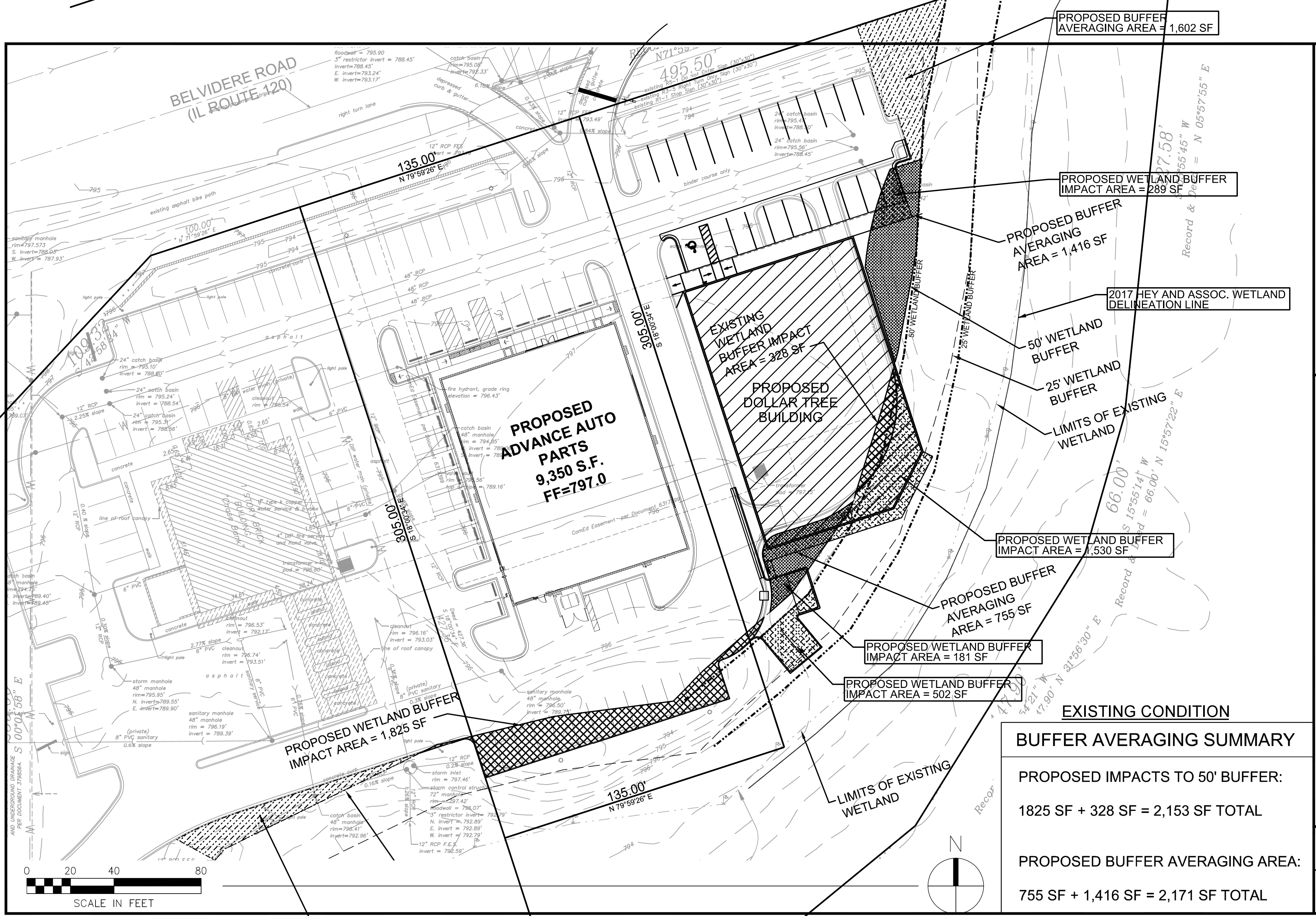
DOLLAR TREE
LOT 1, ADVANCE AUTO SUBDIVISION
GRAYSLAKE, ILLINOIS
CHARLES CUI, DEVELOPER

Smithson Associates, Inc.
2 Aikens Road
Hopkinton, MA 01748
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F: 508.925.2133
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www.curtissmithson.com

SCALE AS SHOWN
DATE DECEMBER 1, 2017
PROJECT NO. 17-014-001
SHEET



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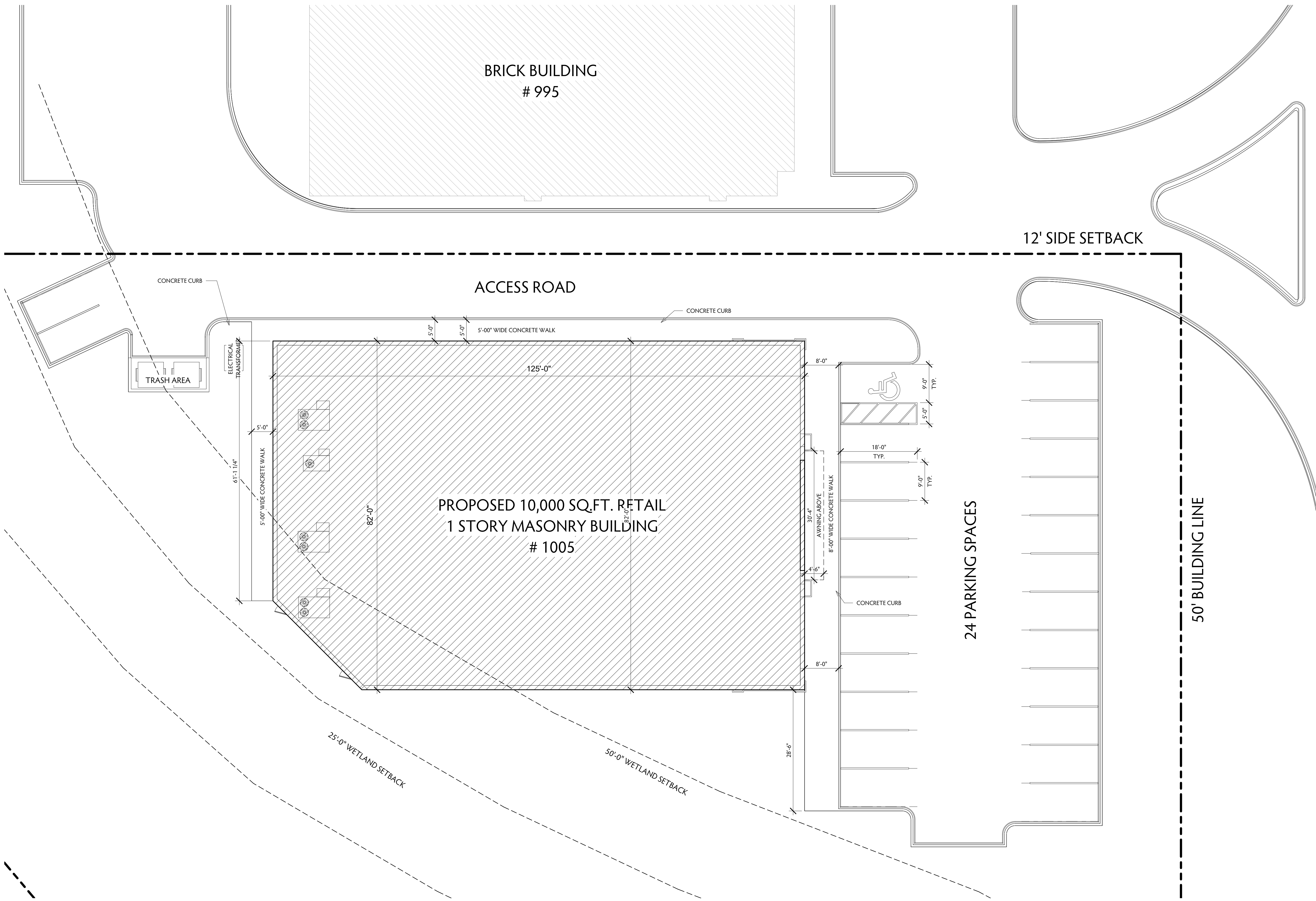


EXISTING CONDITION	
PROPOSED WETLAND BUFFER IMPACT AREA = 1,530 SF	PROPOSED WETLAND BUFFER IMPACT AREA = 502 SF
PROPOSED BUFFER AVERAGING AREA = 755 SF	PROPOSED BUFFER AVERAGING AREA = 181 SF
PROPOSED WETLAND BUFFER IMPACT AREA = 1,416 SF	PROPOSED WETLAND BUFFER IMPACT AREA = 289 SF
PROPOSED BUFFER AVERAGING AREA = 1,602 SF	PROPOSED WETLAND BUFFER IMPACT AREA = 328 SF
PROPOSED WETLAND BUFFERING SUMMARY	
PROPOSED IMPACT TO 50' BUFFER AND EXIST BUFFER AVERAGING AREAS:	
1,530 SF + 502 SF + 181 SF + 289 SF = 2,502 SF	
PROPOSED BUFFER AVERAGING AREA:	
755 SF + 1,416 SF = 2,171 SF TOTAL	

WETLAND BUFFER IMPACTS AND AVERAGING	
DATE	04-04-2012
DRAWN	OP
APPROVED	OP
PROJECT NO.	8111901
SHEET NO.	WB1.0

SHIVE-HATTERY
 ARCHITECTURE+ENGINEERING
 Iowa | Illinois | Missouri
 ILLINOIS FRM NUMBER: 184-000214

REVISIONS
 WETLAND BUFFER IMPACT AND AVERAGING AREAS
 DOLLAR TREE
 LOT 1, ADVANCE AUTO SUBDIVISION
 GRAYSLAKE, ILLINOIS
 CHARLES CUI, DEVELOPER
 Smithson Associates, Inc.
 2 Aikens Road
 Hopkinton, MA 01748
 P. 508.925.2620
 E. charles@smithson.com
 W. www.smithson.com
 Prof. Design Firm Reg. #184-002793
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 DATE DECEMBER 1, 2017
 PROJECT NO. 17-014-001
 SHEET
C9



12' SIDE SETBACK

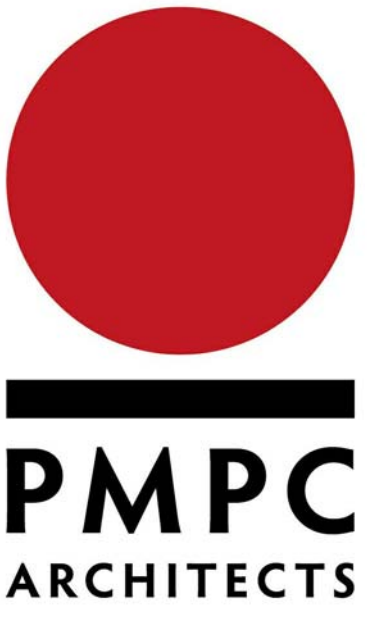
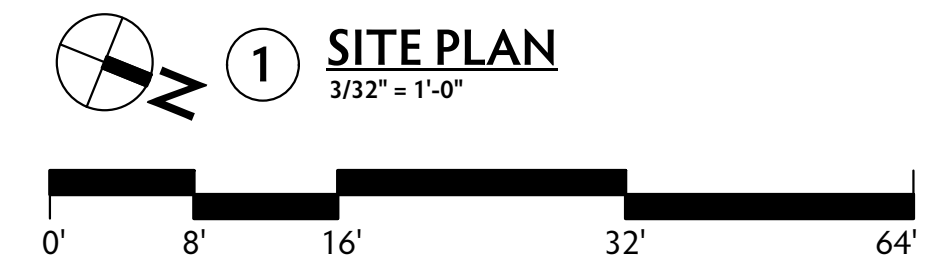
ACCESS ROAD

PROPOSED 10,000 SQ.FT. RETAIL
1 STORY MASONRY BUILDING
1005

24 PARKING SPACES

50' BUILDING LINE

BELVIDERE ROAD



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10-20-2017	COLLABORATE	- SENT

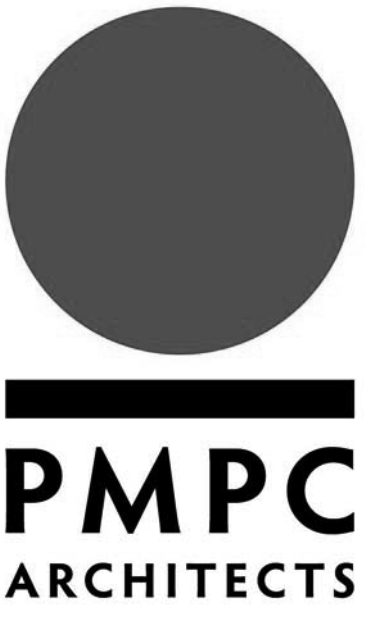
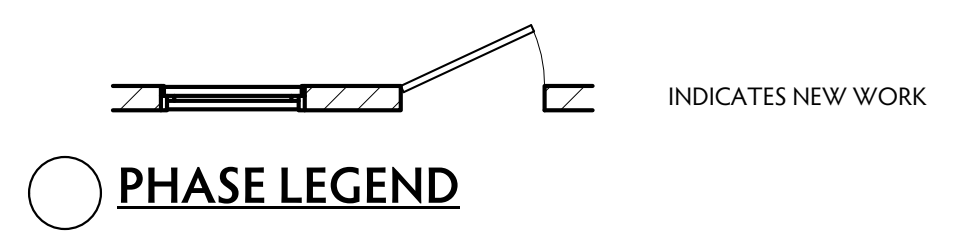
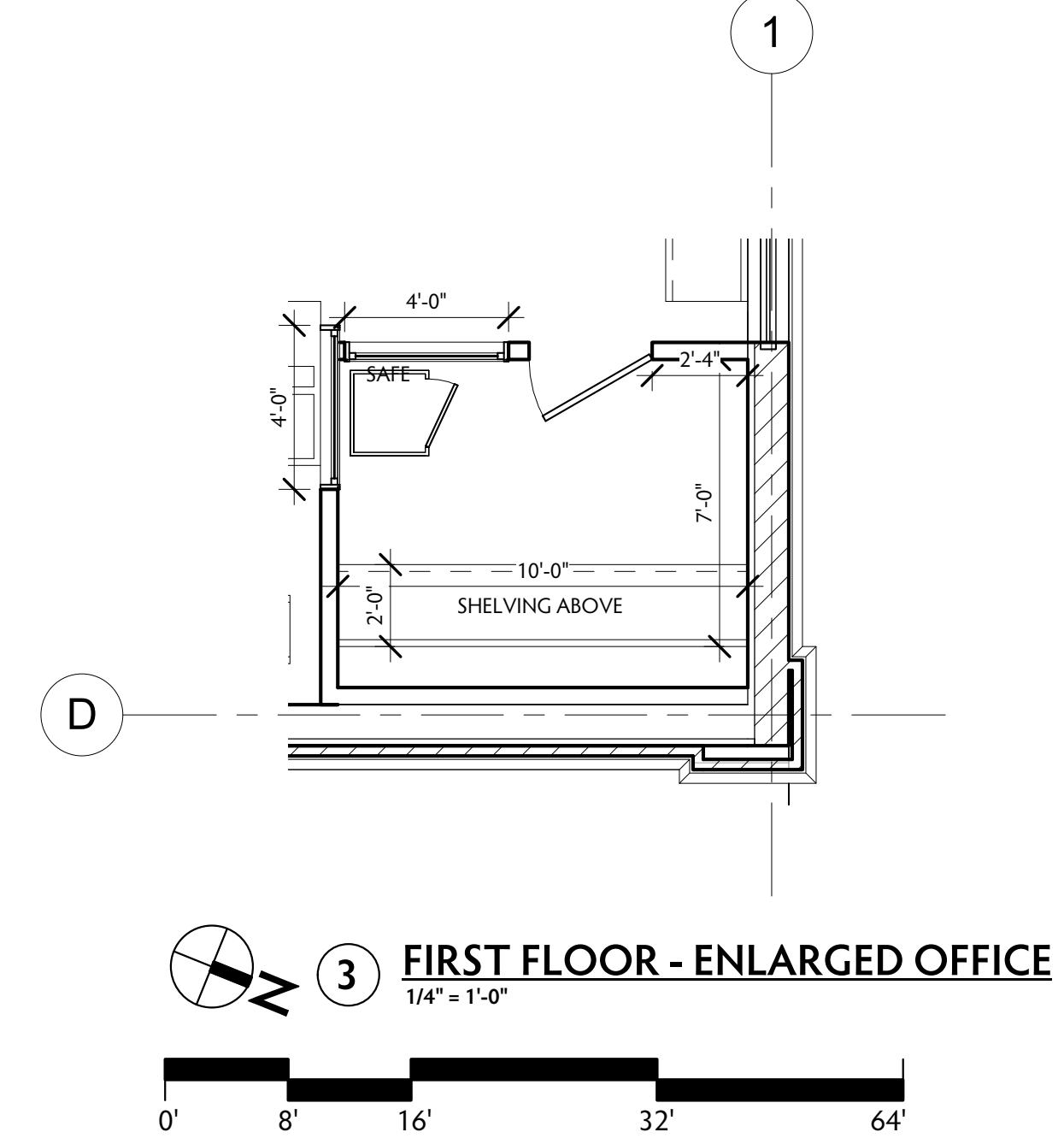
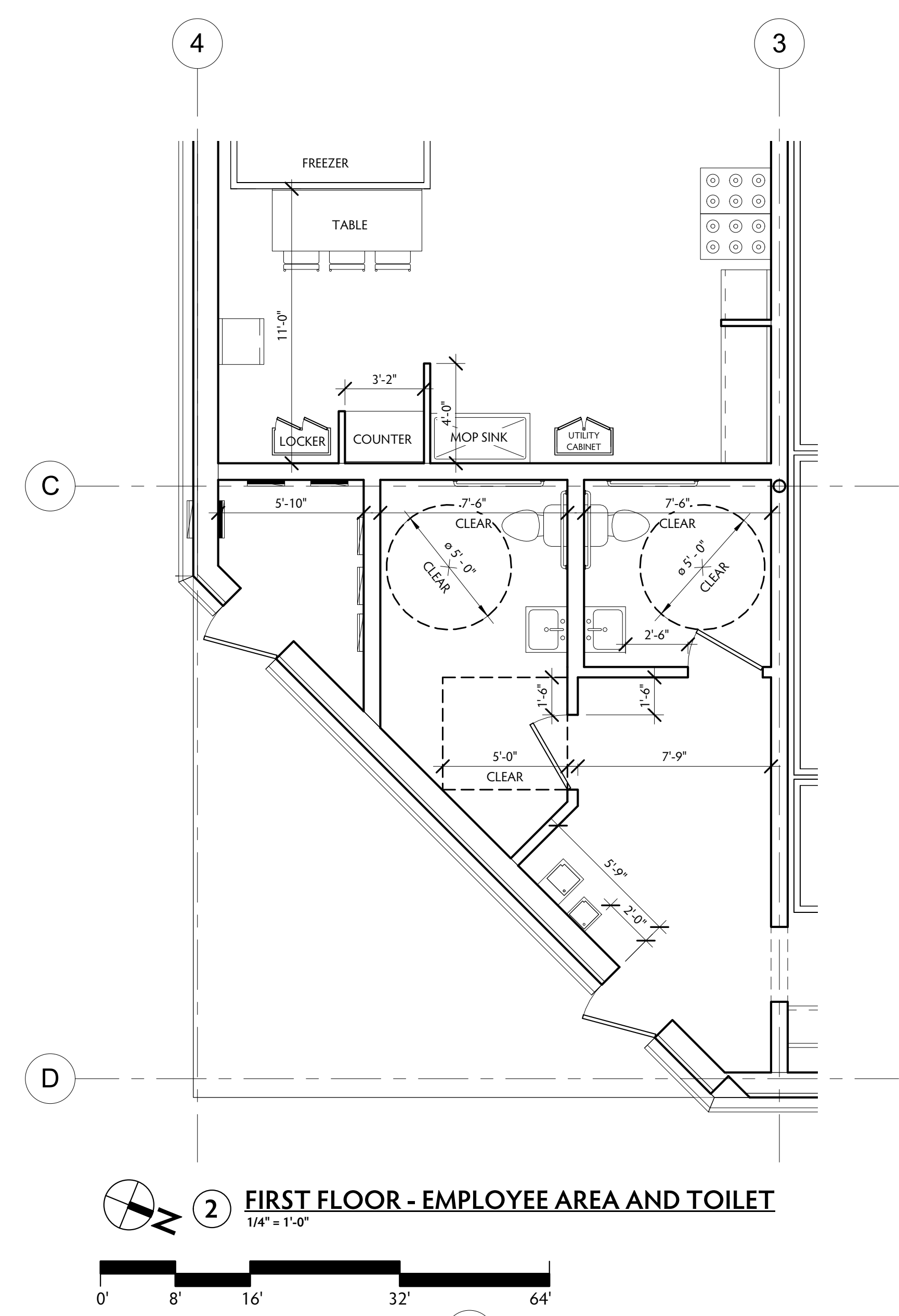
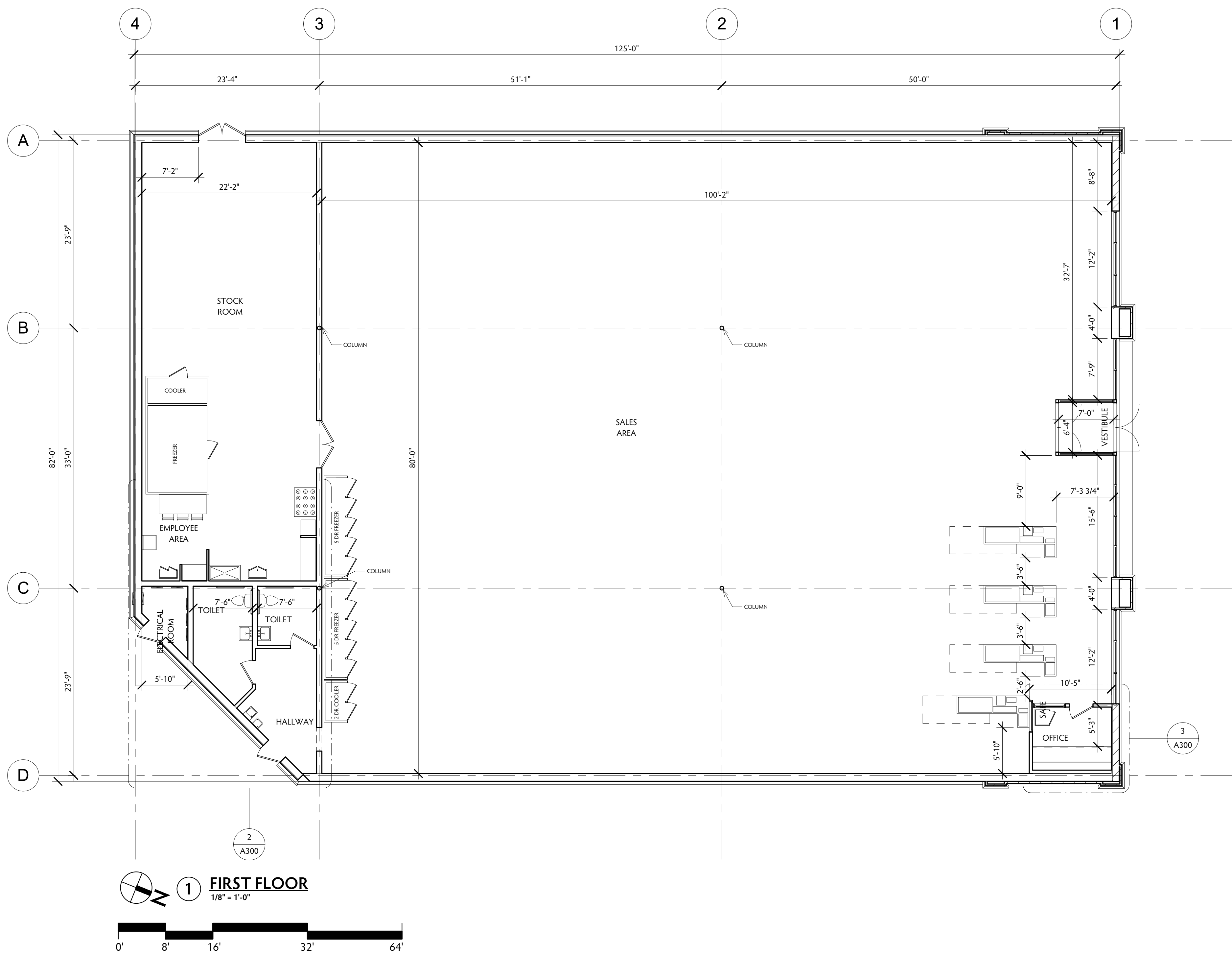
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SITE PLAN

T101



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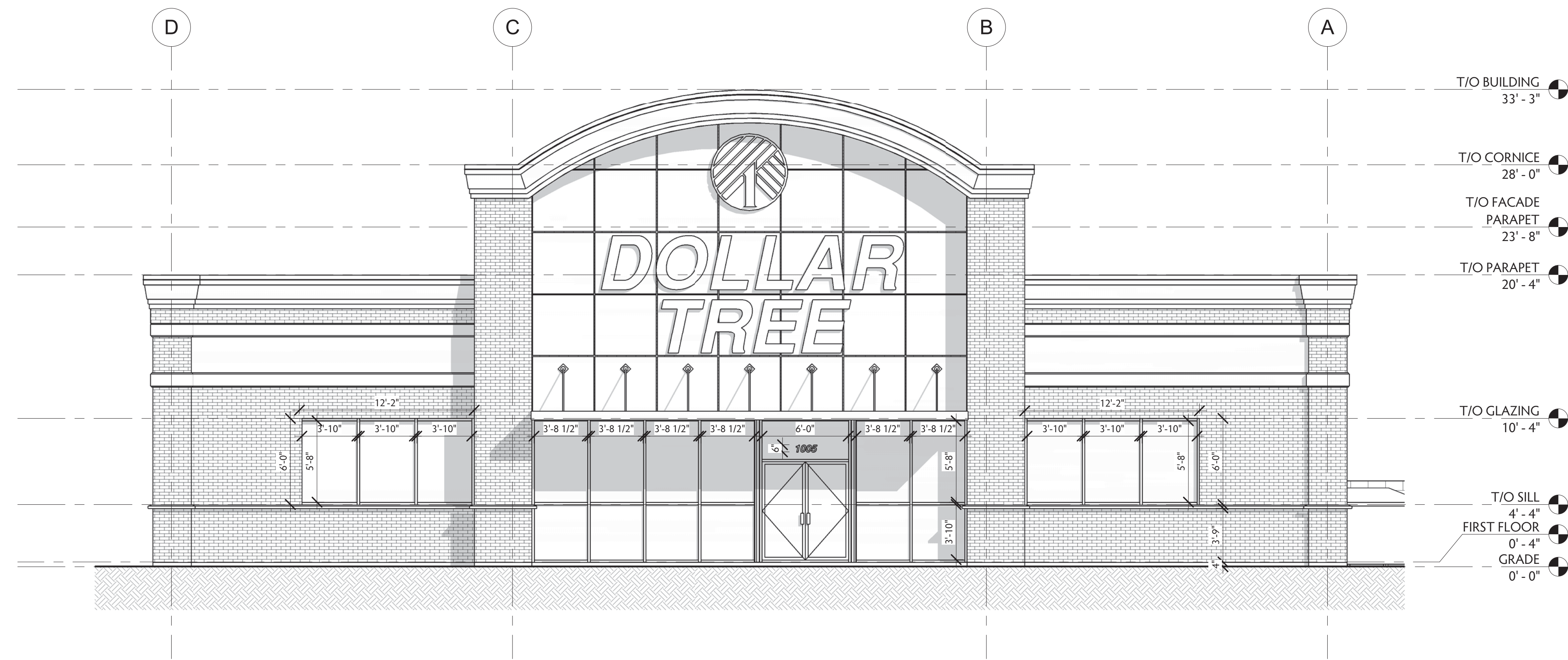
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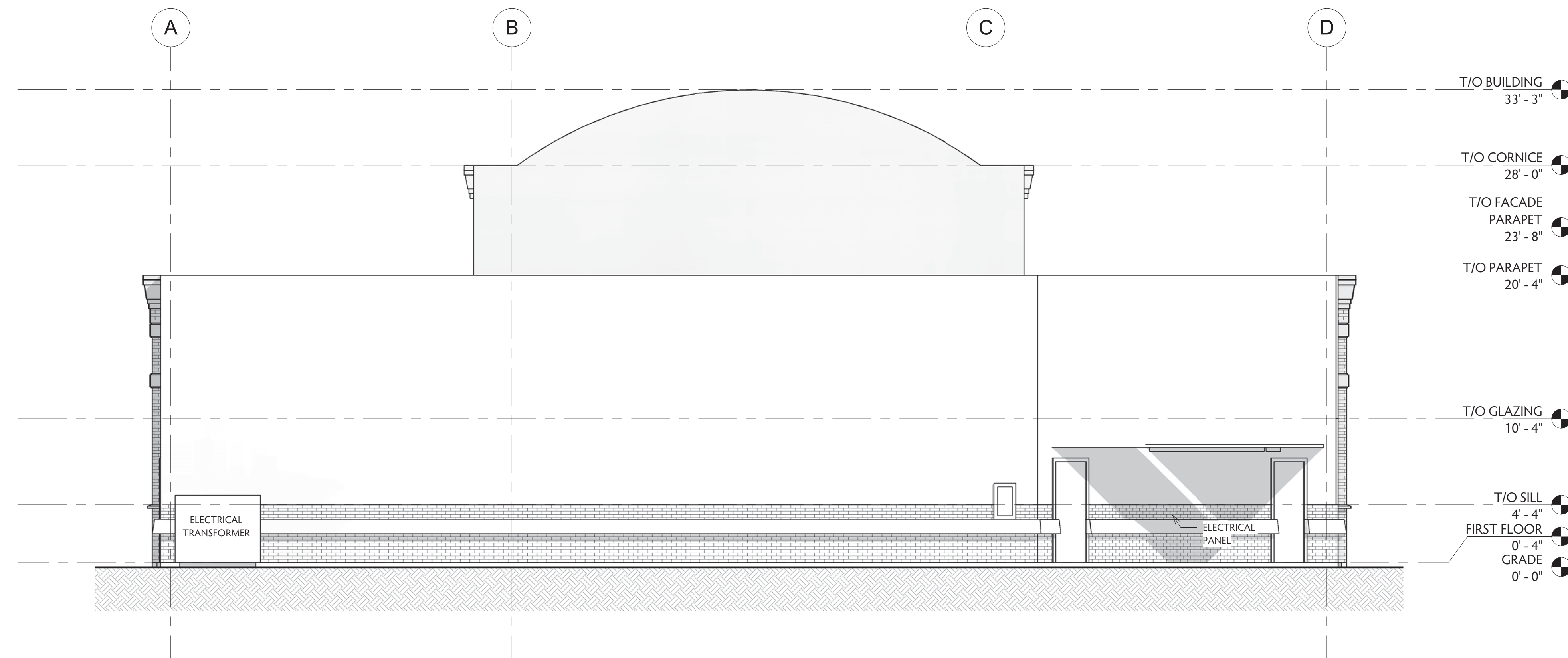
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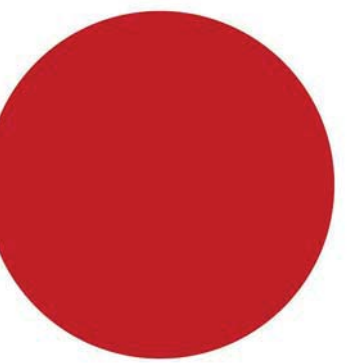
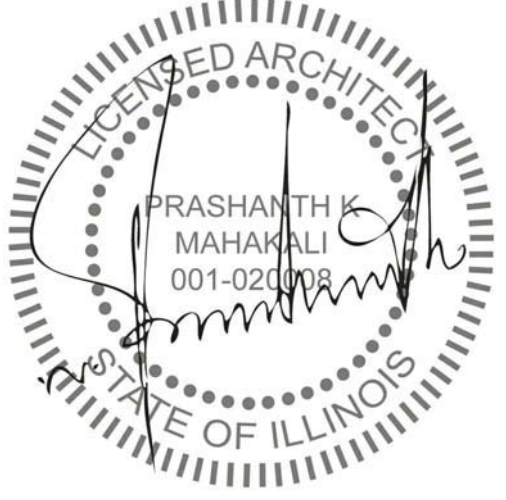
A300



1 NORTH ELEVATION
3/16" = 1'-0"



2 SOUTH ELEVATION
3/16" = 1'-0"



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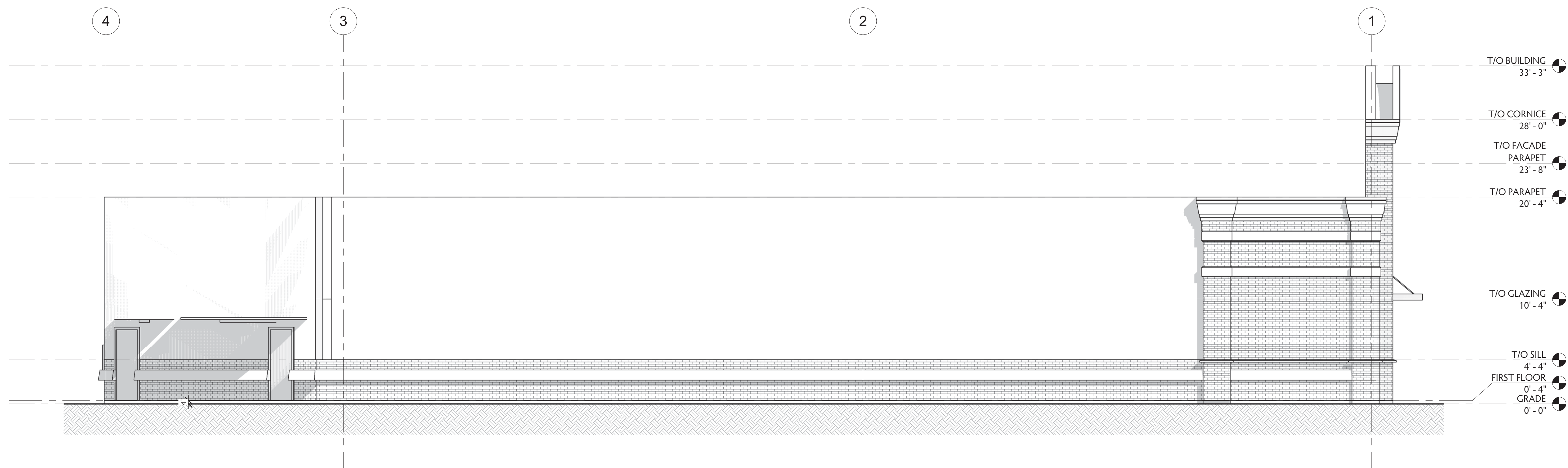
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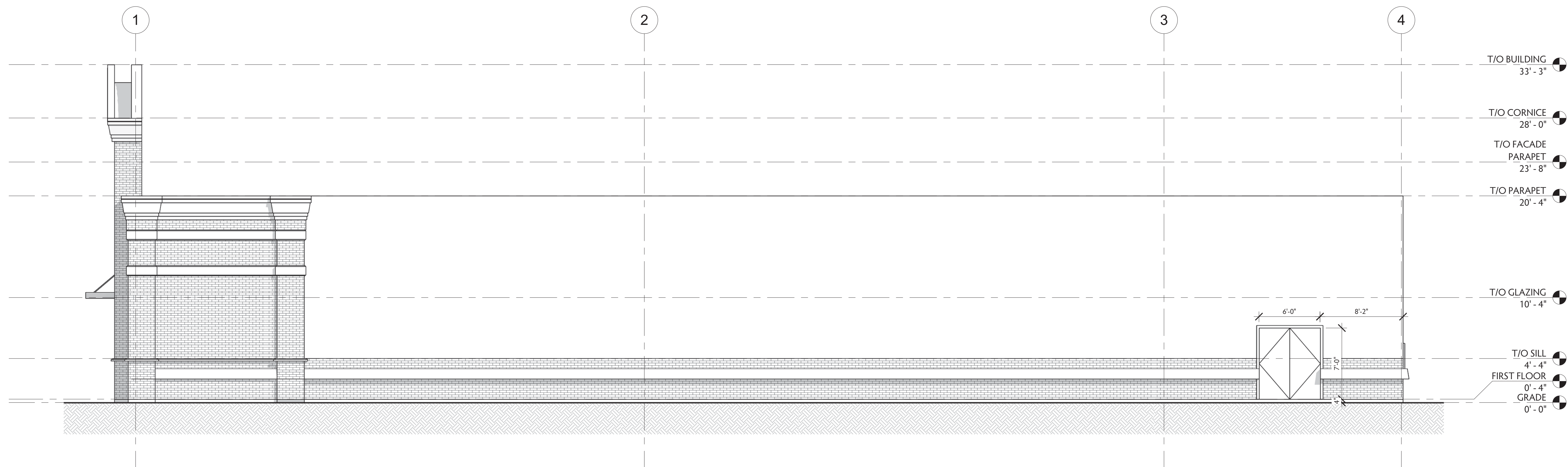
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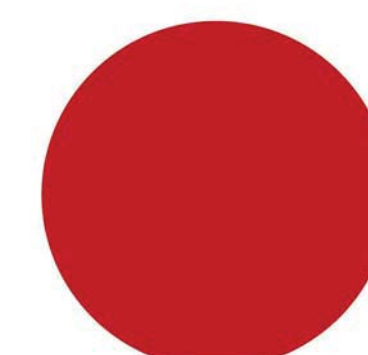
A500



1 EAST ELEVATION
3/16" = 1'-0"



2 WEST ELEVATION
3/16" = 1'-0"



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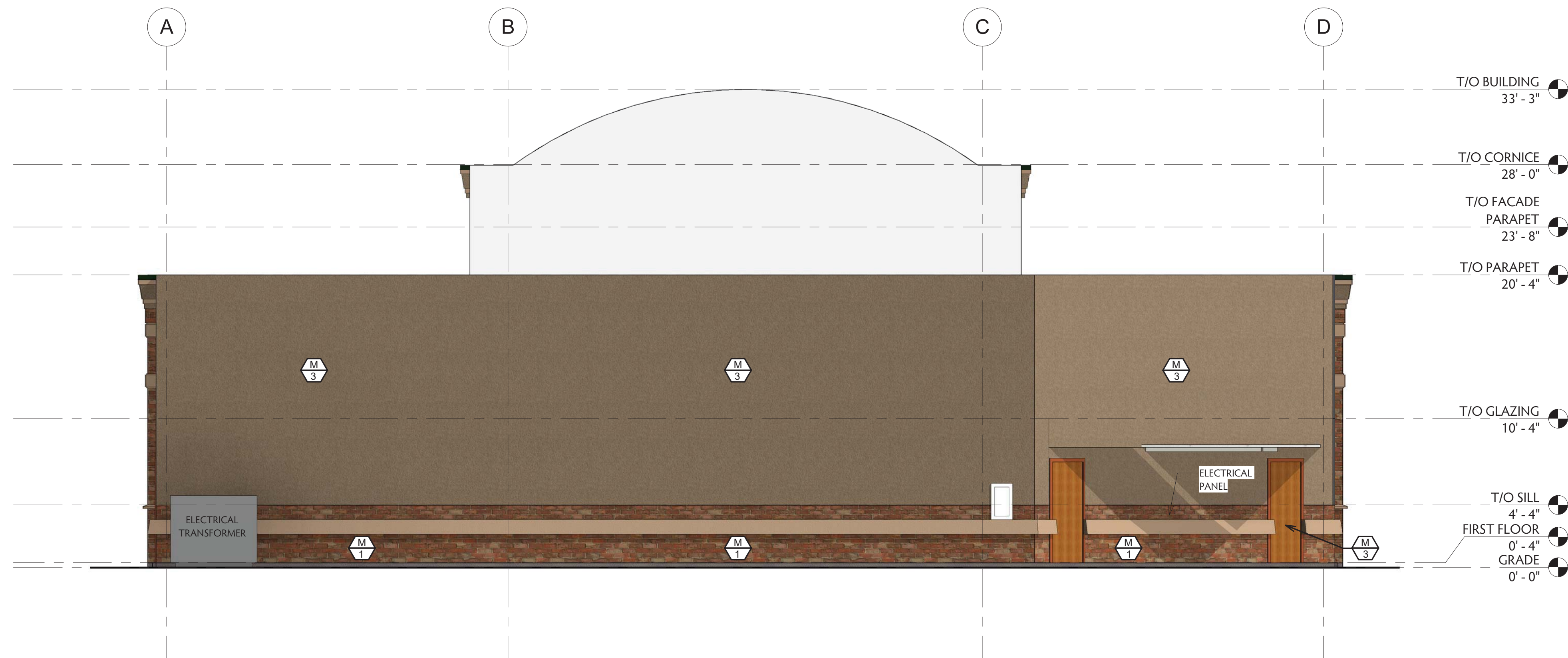
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ELEVATIONS

A501



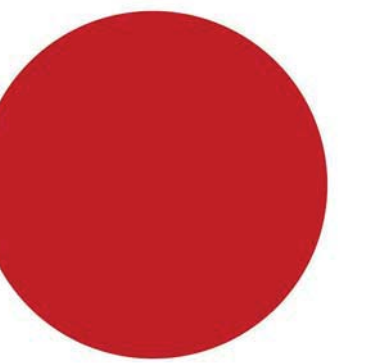
1 NORTH ELEVATION - RENDER
3/16" = 1'-0"



2 SOUTH ELEVATION - RENDER
3/16" = 1'-0"

KEYNOTE	DESCRIPTION	COLOR
M 1	HARVARD BRICK	SHERWIN WILLIAMS - 'VIRTUAL TOUPE' - SW7039
M 2	EIFS-COLOR 1 (FINISH PRODUCT STO 310)	STO 'SANDSTONE' 93860 (NA10-0052)
M 3	EIFS-COLOR 2 (FINISH PRODUCT STO 310)	STO 'SMOKED PUTTY' 93240 (NA10-0053)
M 4	EIFS-COLOR ACCENT COLOR (FINISH PRODUCT STOLIT 130D)	STO SW 'ENVY' SW6925 (NA10-0054)
M 5	3 3/8" x 3 5/8" EIFS SILL W/ BEVEL	STO 'SMOKED PUTTY' 93240 (NA10-0053)
M 6	SCULPTED RAKE TRIM (PROVIDED BY METAL BUILDING MANF.)	MBCI SIGNATURE 200 - 'LIGHT STONE'
M 7	METAL COPING (PROVIDED BY METAL BUILDING MANF.)	SHERWIN WILLIAMS - 'ENVY' SW6925
M 8	3'-0" MAPES LUMIDECK - HANGER ROD SUPPORTED W/ FASCIA - SUPPLIED BY DOLLAR TREE AND INSTALLED BY GC.	SHERWIN WILLIAMS - 'ENVY' SW6925
M 9	STEEL DOOR AND HOLLOW METAL FRAME	SHERWIN WILLIAMS 'BALANCED BEIGE' SW7037

ELEVATION LEGEND



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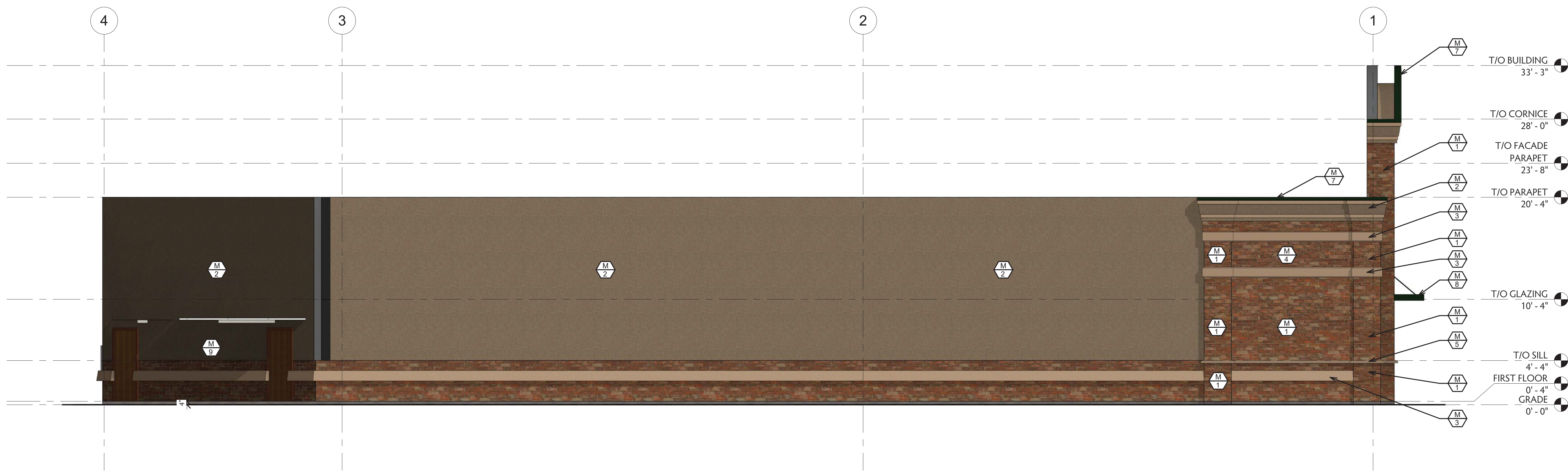
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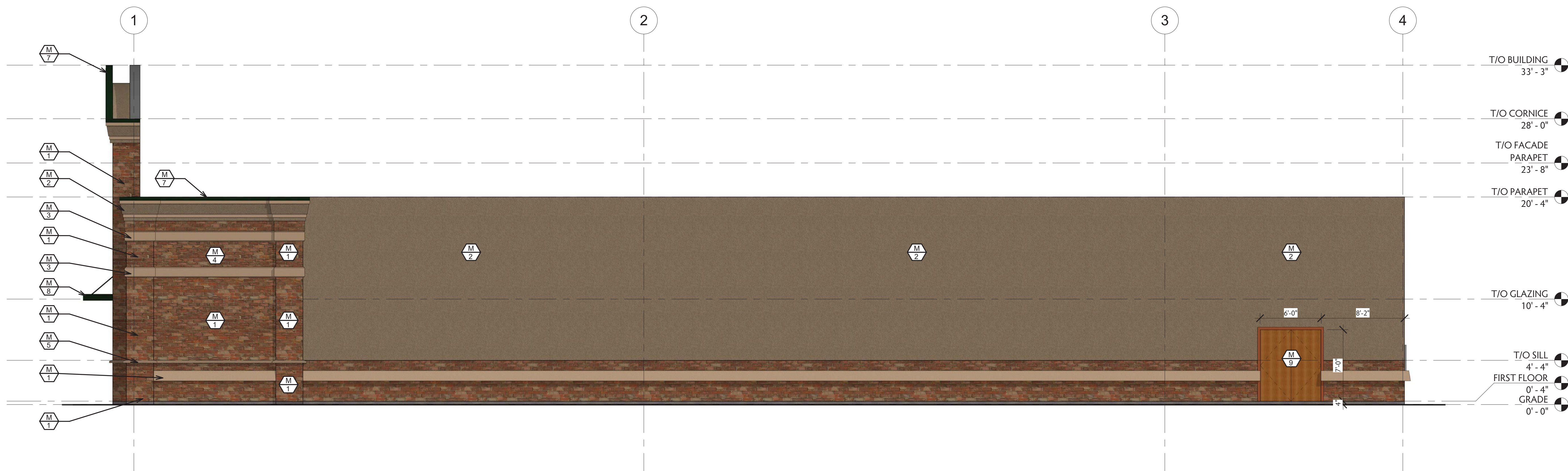
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RENDERED ELEVATIONS

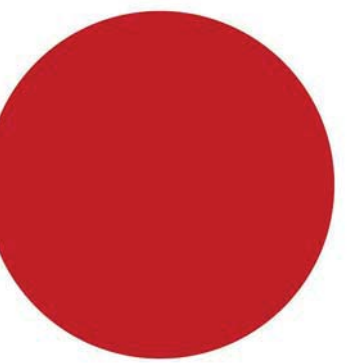
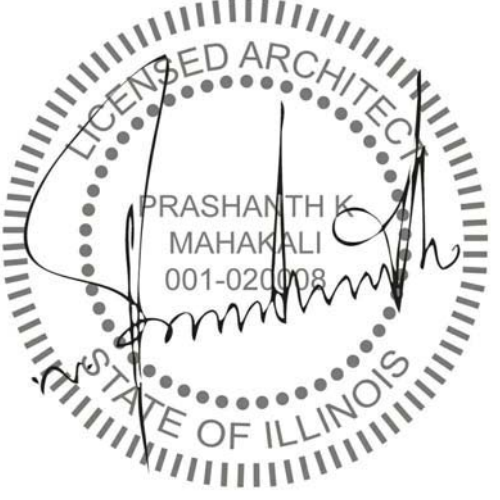
A502



1 EAST ELEVATION - RENDER
3/16" = 1'-0"



2 WEST ELEVATION - RENDER
3/16" = 1'-0"



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RENDERED ELEVATIONS

A503