

SITE DEVELOPMENT PLANS

INCLUDING
SITE, DEMOLITION, GRADING, DRAINAGE,
EROSION CONTROL, UTILITIES, LIGHTING
AND LANDSCAPING
FOR
MEADOWS PLAZA REHABILITATION
MASSILLON, OHIO

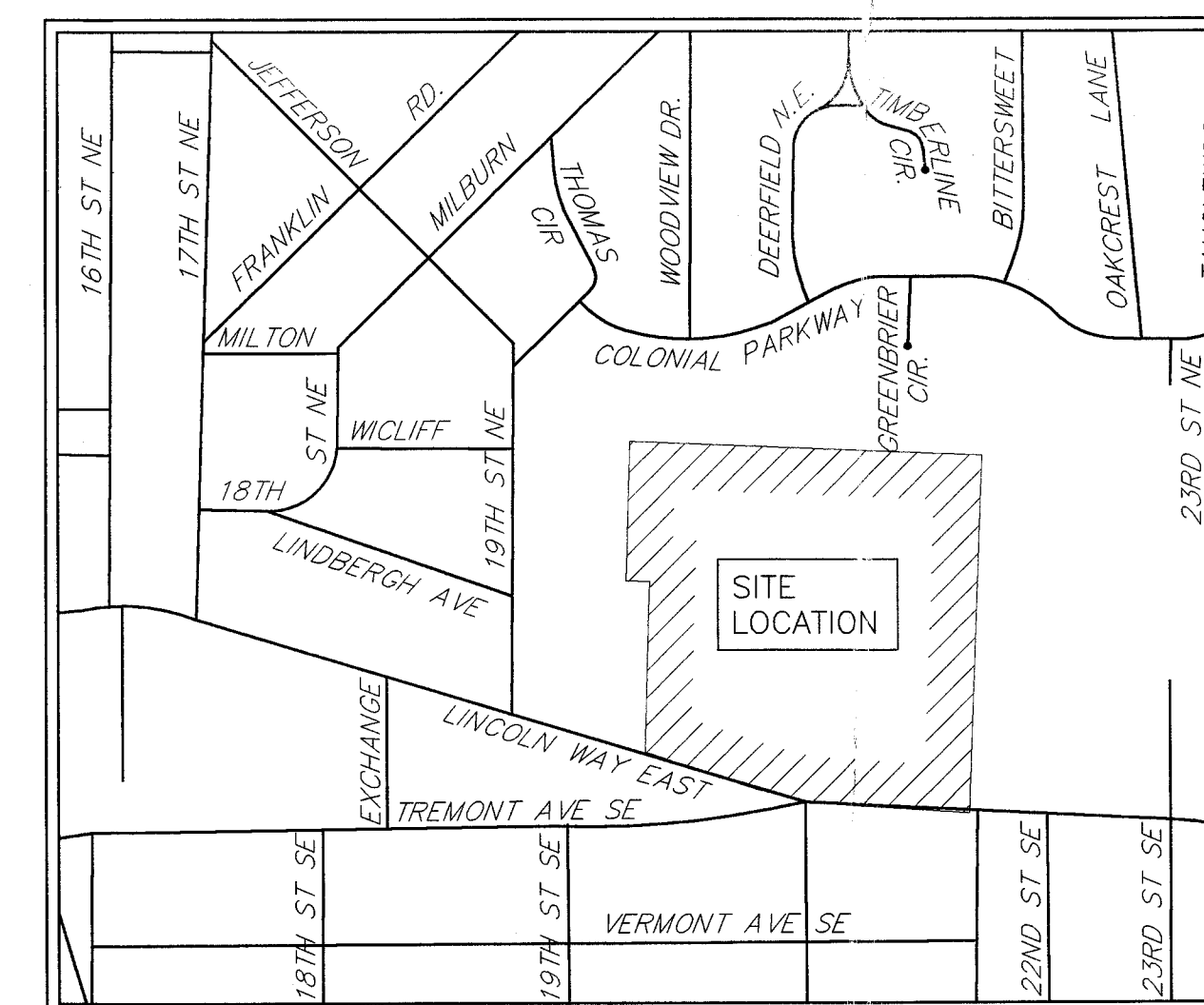
TARGET STORES
A DIVISION OF TARGET CORPORATION
1000 NICOLLET MALL
MINNEAPOLIS, MN 55403
FAX: (612) 761-3322

GENERAL CONTRACTOR & ARCHITECT
AMCON
20633 WATERTOWN COURT
SUITE 200
WAUKESHA, WI 55186
(262) 717-9944

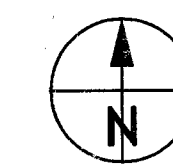
DEVELOPER
LRC MEADOWS INVESTORS, LLC.
1585 FREDERICK BOULEVARD
AKRON, OHIO 44320
(330) 253-6958

CIVIL & ELECTRICAL ENGINEER CONSULTANTS
THORSON BAKER & ASSOCIATES, INC.
3030 WEST STREETSBORO ROAD
RICHFIELD, OHIO 44286
(330) 659-6688

LANDSCAPE CONSULTANT
CAWRISE & ASSOCIATES, INC.
547 EAST WASHINGTON STREET
CHAGRIN FALLS, OHIO 44022-4446
(440) 247-7003



LOCATION MAP



SHEET INDEX

SHEET	DESCRIPTION
C1	TITLE SHEET
2-3	ALTA SURVEY
C4	EXISTING CONDITIONS PLAN
C5	SITE SURFACE DEMOLITION PLAN
C6	SITE UTILITY DEMOLITION PLAN
C7	SITE GEOMETRIC PLAN
C8	SITE GRADING PLAN
C9	SITE UTILITIES PLAN
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C12	DRAINAGE MAP AND EROSION CONTROL NOTES
C13	MAIN DRIVE PROFILE AND DETAILS
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L1	LANDSCAPE PLAN & NOTES
L2	LANDSCAPE DETAILS
I1	SITE IRRIGATION PLAN AND DETAILS
ES1	ELECTRICAL SITE PHOTOMETRIC PLAN
ES2	ELECTRICAL SITE PLAN
ES3	ELECTRICAL DETAILS AND SCHEDULES
ES4	ELECTRICAL SPECIFICATIONS

UTILITIES

WATER
AQUA OHIO
STARK REGIONAL DIVISION
870 THIRD STREET N.W.
MASSILLON, OHIO 44647-4206
CONTACT: DON SCHNIDER
PHONE: (330) 832-5764 EXT. 205

SEWER
CITY OF MASSILLON
ENGINEERING DEPARTMENT
MUNICIPAL GOVERNMENT ANNEX
151 LINCOLN WAY EAST
MASSILLON, OHIO 44646
CONTACT: STEVE HAMIT (CITY ENGINEER)
PHONE: (330) 830-1722

GAS
DOMINION EAST OHIO
1049 HEYL ROAD
WOOSTER, OHIO 44691-9735
CONTACT: JOHN AMENTAS
PHONE: (330) 178-3120

ELECTRIC
OHIO EDISON
730 SOUTH AVENUE
YOUNGSTOWN, OHIO 44501
CONTACT: TIM McMILLIN
PHONE: (330) 740-7627

TELEPHONE
SBC AMERITECH
50 WEST BOWERY ST.
FLOOR 6
AKRON, OHIO 44308

TARGET

REVIEWED BY:

DEVELOPMENT MANAGER
REVISE AND RESUBMIT ☐ NOT REVIEWED ☐ APPROVED AS NOTED ☐ APPROVED ☐

PROJECT ARCHITECT
REVISE AND RESUBMIT ☐ NOT REVIEWED ☐ APPROVED AS NOTED ☐ APPROVED ☐

PROJECT ENGINEER (M)
REVISE AND RESUBMIT ☐ NOT REVIEWED ☐ APPROVED AS NOTED ☐ APPROVED ☐

PROJECT ENGINEER (E)
REVISE AND RESUBMIT ☐ NOT REVIEWED ☐ APPROVED AS NOTED ☐ APPROVED ☐

PROJECT ENGINEER (S)
REVISE AND RESUBMIT ☐ NOT REVIEWED ☐ APPROVED AS NOTED ☐ APPROVED ☐

APPROVED ONLY FOR CONFORMANCE OF THE SITE CONSTRUCTION
DOCUMENTS TO TARGET DEVELOPER GUIDE, EDITION 2.4 AND THE TARGET
BUILDING DOCUMENTS. CONSULTANT IS SOLELY RESPONSIBLE FOR
COMPLETENESS, ACCURACY, AND DIMENSIONS ON THE CONSTRUCTION
DOCUMENTS.

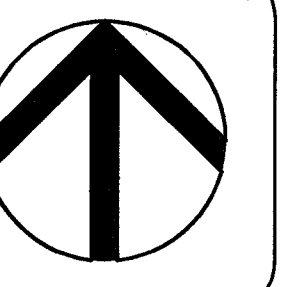
2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE: 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

09/11/04
RECEIVED

THORSON BAKER & ASSOCIATES, INC.
Consulting Engineers
(330) 659-6688
3030 West Streetsboro Road
Richfield, Ohio 44286

ISSUED FOR
CONSTRUCTION
08/09/04
ISSUED FOR OWNER
REVIEW
07/30/04
ISSUED FOR CITY
REVIEW
07/08/04
ISSUED FOR REVIEW
06/25/04

PROPOSED
MEADOWS PLAZA
REDEVELOPMENT
MASSILLON, OHIO



SHEET TITLE
TITLE
SHEET

SCALE: NONE

DATE:

6/21/2004

C1

PROJECT NUMBER

003-034

REVISIONS

H:\Land Projects\R2\03292-REV.dwg\03292-REV.dwg 6/7/2004 1:32:15 PM EDT

Name: MACHINIST ACAD.ctb Date: Aug 10, 2004 Time: 1:58 pm



LOCATION MAP

PERTINENT EASEMENTS, RIGHTS-OF-WAY & RESTRICTIONS
PROVIDED TO THE SURVEYOR BY
FIRST AMERICAN TITLE INSURANCE COMPANY

COMMITMENT No. 591137 DATED: SEPTEMBER 19, 2003			
TITLE PARAGRAPH	VOLUME & PAGE	DESCRIPTION	REMARKS
15	D.V. 3537, Pg. 213	EASEMENT TO THE OHIO EDISON COMPANY	SHOWN HEREON 15
16	D.V. 3539, Pg. 114	RESTRICTIONS, COVENANTS AND CONDITIONS	SHOWN HEREON 16
17	D.V. 3558, Pg. 675	EASEMENT FOR STORM SEWER BETWEEN H.W. GILTZ & TERRACE LAND, CORP.	SHOWN HEREON 17
18	D.V. 3600, Pg. 84	EASEMENT TO THE OHIO EDISON COMPANY	SHOWN HEREON 18
19	D.V. 3618, Pg. 521	RIGHT-OF-WAY TO THE EAST OHIO GAS COMPANY	SHOWN HEREON 19
20	D.V. 3678, Pg. 349	MUTUAL AGREEMENT BETWEEN H.E. GILTZ II & BRAODCO, INC.	SHOWN HEREON 20
21	D.V. 3698, Pg. 260	RIGHT-OF-WAY TO THE EAST OHIO GAS COMPANY	SHOWN HEREON 21
22	D.V. 3819, Pg. 276	EASEMENT TO THE MASSILLON MOTEL, LTD	SHOWN HEREON 22
23	D.V. 3819, Pg. 283	EASEMENT TO THE MASSILLON MOTEL, LTD	SHOWN HEREON 23
24	D.V. 3967, Pg. 127	EASEMENT TO THE CITY OF MASSILLON & STATE OF OHIO O.D.C.T.	SHOWN HEREON 24
25	D.V. 4074, Pg. 770	AGREEMENT BETWEEN H.W. GILTZ & W.T. GRANT	SHOWN HEREON 25
26	L.V. 174, Pg. 25	LEASE & TERMS W.T. & H.W. GILTZ	NOT APPLICABLE
27	L.V. 174, Pg. 30	DECLARATION	UNPLATTABLE
28	L.V. 174, Pg. 570	SUPPLEMENTAL AGREEMENT	UNPLATTABLE
29	L.V. 182, Pg. 375	AMENDMENT	UNPLATTABLE
30	L.V. 182, Pg. 379	SECOND AMENDMENT	UNPLATTABLE
31	L.V. 182, Pg. 386	AGREEMENT BETWEEN H.W. GILTZ & NATIONAL TEA CO.	UNPLATTABLE
33	O.R. 1049, Pg. 950	RIGHT-OF-WAY TO THE EAST OHIO GAS COMPANY	SHOWN HEREON 33

TRACT 'B' COMMITMENT No. S-25766 DATED: JULY 1, 2003			
TITLE PARAGRAPH	VOLUME & PAGE	DESCRIPTION	REMARKS
11	D.V. 3537, Pg. 213	EASEMENT TO THE OHIO EDISON COMPANY	SHOWN HEREON 11
12	D.V. 3751, Pg. 144	RELEASE OF RESTRICTIONS	UNPLATTABLE
13	D.V. 3678, Pg. 349	MUTUAL EASEMENT AGREEMENT	SHOWN HEREON 13

ALTA/ACSM LAND TITLE SURVEY
OF
MEADOWS PLAZA SHOPPING CENTER

SITUATED IN PART OF OUTLOTS 330 & 420
IN THE CITY OF MASSILLON,
AS LOCATED IN PART OF THE NORTHWEST QUARTER, SECTION 9,
TOWNSHIP-10 (PERRY TWP.), RANGE-9,
STARK COUNTY, OHIO

FOR: LEVEY & COMPANY

DESCRIPTION OF 25.1151 ACRES

TRACT 'A'

FOR: LEVEY AND COMPANY

Known as and being all of a 16.92 acre tract of land, a 4.51 acre tract of land, a 2.305 acre tract of land and a 0.0113 acre tract of land presently owned by Elias Kalimian as recorded in Official Record Volume 512, Page 536 of the Stark County Deed Records, all of a 0.937 acre tract of land presently owned by Elias Kalimian as recorded in Official Record Volume 541, Page 812 of said Deed Records, and all of a 0.48 acre tract of land presently owned by Elias Kalimian, as recorded in Stark County Recorder's Image Number 2002/11140092718. Being part of Outlots 330 and 420 in the City of Massillon, as located in part of the Northwest Quarter of Section 9, Township 10 (Perry Township), Range 9, Stark County, Ohio and being more particularly bounded and described as follows:

Beginning for the same at a point, marked by a 1 inch iron pipe found at the southeast corner of the said Northwest Quarter of Section 9, Perry Township;

Thence N06°19'40"E along a portion of the east line of said Northwest Quarter Section 9, a distance of 15.95 feet to a point marked by a mag nail set on the centerline of Lincoln Way East (S.R. 172) (variable right-of-way);

Thence N82°12'05"W along a portion of the centerline of said Lincoln Way East (S.R. 172) a distance of 400.01 feet to a point marked by a mag nail set at the southwest corner of a 0.7606 acre tract of land now or formerly owned by Imperial Capital Bank as recorded in Stark County Recorder's Image Number 2001/029184 and being the true place of beginning for the tract of land herein to be described;

Thence continuing N82°12'05"W along a portion of the centerline of said Lincoln Way East a distance of 54.01 feet to a point of curvature marked by a mag nail set;

Thence continuing along a portion of the centerline of said Lincoln Way East on the arc of a curve to the right, in a westerly direction, with said curve having a central angle of 14°57'00", a radius of 954.93 feet, a tangent distance of 125.30 feet and an arc length of 249.17 feet, a distance of 249.17 feet to the point of tangency of said curve (last stated curve course has a chord bearing and distance of N74°43'35"W - 248.46 feet);

Thence N67°15'05"W continuing along a portion of the centerline of Lincoln Way East (S.R. 172) a distance of 304.60 feet to a point of curvature marked by a mag nail set;

Thence continuing along a portion of the centerline of said Lincoln Way East, on the arc of a curve to the right, in a westerly direction, with said curve having a central angle of 00°49'56", a radius of 5729.58 feet, a tangent distance of 41.61 feet and an arc length of 83.22 feet, a distance of 83.22 feet to a point, marked by a mag nail set at the southeast corner of a tract of land now or formerly owned by James N. and Joanne M. Friedrich, as recorded in Deed Volume 4078, Page 945 of said Deed Records (last stated curve course has a chord bearing and distance of N66°50'07"W - 83.21 feet);

Thence N05°42'56"E along the east line of said James N. and Joanne M. Friedrich tract of land, (Passing over a 1/2" iron bar set at 34.68 feet) a total distance of 360.07 feet to a point marked by a 1/2" iron bar set;

Thence N04°10'40"W along the north line of said James N. and Joanne M. Friedrich tract of land, a distance of 75.63 feet to a point marked by a 1/2" inch iron pipe found at the southeast corner of a 2.63 acre tract of land now or formerly owned by Ronald L. Grey, as recorded in Stark County Recorder's Image Number 2002/06280051258;

Thence N05°37'30"E along a portion of the east line of said Ronald A. Grey tract of land, a distance of 458.56 feet to a point marked by a 1/2 inch iron pipe found at the southwest corner of a 0.407 acre tract of land now or formerly owned by S. & L. Pearson, as recorded in Official Record Volume 344, Page 440 of the Stark County Deed Records;

Thence S83°33'51"E along the south line of said 0.407 acre tract of land, the south line of a 0.379 acre tract of land now or formerly owned by S. & L. Pearson as recorded in Stark County Recorder's Image Number 2002/12020098172, a 0.390 acre tract of land now or formerly owned by J. & M. Hartsock, as recorded in Deed Volume 4261, Page 148 of the Stark County Deed Records, a 0.417 acre tract of land now or formerly owned by H. & A. Matthews as recorded in Deed Volume 4261, Page 144 of said Deed Records, a 1.037 acre tract of land now or formerly owned by Giltz Associates, as recorded in Stark County Recorder's Image Number 1996/021079, and the south line of a 0.76 acre tract of land now or formerly owned by L. & P. Brown, as recorded in Official Record Volume 610, Page 148 of said Deed Records, a distance of 1158.36 feet to a point marked by a 1/2 inch iron bar set on the east line of the previously stated Northwest Quarter Section 9, Perry Township, and the east line of said Outlot 420;

Thence S06°19'40"W along a portion of the east line of said Northwest Quarter Section 9, and a portion of the east line of said Outlot 420, a distance of 776.52 feet to a point marked by a 1/2 inch iron bar set at the northeast corner of a 1.60 acre tract of land now or formerly owned by Imperial Capital Bank, as recorded in Stark County Recorder's Image Number 2001/029184;

Thence N83°40'20"W along the north line of said 1.60 acre tract of land, a distance of 408.92 feet to a point marked by a 1/2 inch iron bar set;

Thence S06°19'40"W along the west line of said 1.60 acre tract of land, a distance of 169.86 feet to a point marked by a 1/2 inch iron bar set;

Thence S83°40'20"E along a portion of the south line of said 1.60 acre tract of land, a distance of 9.04 feet to a point marked by a 1/2 inch iron bar set at the northwest corner of a 0.7606 acre tract of land now or formerly owned by Imperial Capital Bank, as recorded in Stark County Recorder's Image Number 2001/029184;

Thence S06°19'40"W along the west line of said 0.7606 acre tract of land (passing over a mag nail set at 186.52 feet) a total distance of 219.53 feet to a point marked by a mag nail set on the centerline of previously stated Lincoln Way East (S.R. 172), being the true place of beginning and containing a total area of 25.1151 acres of land more or less of which 4.7646 acres are in Outlot 330 and 20.3505 acres are in Outlot 420. There is 0.5237 acre of land located within roadway right-of-way of Lincoln Way East.

DESCRIPTION OF 3.657 ACRES

TRACT 'B'

FOR: LEVEY & COMPANY

Known as and being all of a 0.7606 acre tract of land, a 1.30 acre tract of land and a 1.60 acre tract of land presently owned by Imperial Capital Bank as recorded in Stark County Recorder's Image Number 2001/029184. Being part of Outlots 330 and 420 in the City of Massillon, as situated in part of the Northwest Quarter of Section 9, Township 10 (Perry Township), Range 9, Stark County, Ohio and being more particularly bounded and described as follows;

Beginning for the same at a point, marked by a 1 inch iron pipe found at the southeast corner of said Northwest Quarter Section 9, Perry Township;

Thence N06°19'40"E along a portion of the east line of said Northwest Quarter Section 9, a distance of 15.95 feet to a point, marked by a mag nail set on the centerline of Lincoln Way East (S.R. - 172) (variable right-of-way) and being the true place of beginning for the tract of land herein to be described;

Thence N82°12'05"W along a portion of the centerline of said Lincoln Way East, a distance of 400.01 feet to a point, marked by a mag nail set at the southeast corner of a 0.937 acre tract of land, now or formerly owned by Elias Kalimian, as recorded in Official Record Volume 541, Page 812 of the Stark County Deed Records;

Thence N06°19'40"E along the east line of said 0.937 acre tract of land (passing over a mag nail set at 33.01 feet) a total distance of 219.53 feet to a point marked by a 1/2 inch iron bar set;

Thence N83°40'20"W along a portion of the north line of said 0.937 acre tract of land, a distance of 9.04 feet to a point, marked by a 1/2 inch iron bar set at the most northerly southeast corner of a 16.92 acre tract of land now or formerly owned by Elias Kalimian, as recorded in Official Record Volume 512, Page 536 of said Deed Records;

Thence N06°19'40"E along a portion of the east line of said 16.92 acre tract of land, a distance of 169.86 feet to a point, marked by a 1/2 inch iron bar set at the southwest corner of a 2.305 acre tract of land now or formerly owned by Elias Kalimian, as recorded in Official Record Volume 512, Page 536 of said Deed Records;

Thence S83°40'20"E along the south line of said 2.305 acre tract of land, and the south line of a 0.48 acre tract of land, now or formerly owned by Elias Kalimian as recorded in Stark County Recorder's Image Number 2002/11140092718, a distance of 408.92 feet to a point, marked by a 1/2 inch iron bar set on the east line of previously stated Northwest Quarter Section 9, Perry Township;

Thence S06°19'40"W along a portion of the east line of said Northwest Quarter section 9, a portion of the west line of a 6.391 acre tract of land now or formerly owned by Fisher Foods Marketing, Inc. as recorded in Official Record Volume 415, Page 158 of said Deed Records, and the west line of a 0.519 acre tract of land now or formerly owned by Jones Properties, Ltd. as recorded in Stark County Recorder's Image Number 2003/01220005870 (Passing over a 1/2" iron bar set at 366.66 feet) a total distance of 399.67 feet to a point, marked by a mag nail set on the centerline of previously stated Lincoln Way East (State Route 172) being the true place of beginning and containing a total area of 3.6570 acres of land more or less of which 2.7717 acres are in Outlot 330, and 0.8853 acre is in Outlot 420. There is 0.3030 acre of land located within roadway right-of-way of Lincoln Way East.

UTILITY LOCATION NOTE

LOCATION OF ALL UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED ON FIELD LOCATIONS OF ALL VISIBLE STRUCTURES SUCH AS CATCH BASINS, MANHOLES, WATER AND GAS LINES, ETC., TOGETHER WITH INFORMATIONAL DATA OBTAINED FROM PLANS AND RECORDS SUPPLIED BY VARIOUS UTILITY COMPANIES AND GOVERNMENT AGENCIES. ALL CONTRACTORS SHOULD NOTIFY IN WRITING ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES PRIOR TO ANY EXCAVATION WORK OR CALL O.U.P.S. AT 1-800-362-2764.

PERTINENT DOCUMENTS

R.I.No.2002/06280051258
D.V. 4078, Pg. 945
O.R. 512, Pg. 536 - DEED OF RECORD - TRACT 'A'
O.R. 541, Pg. 812 - DEED OF RECORD - TRACT 'A'
R.I.No.2002/11140092718 - DEED OF RECORD - TRACT 'A'
R.I.No.2003/01220005870
O.R. 415, Pg. 158
O.R. 1108, Pg. 905
R.I.No.2001/029184 - DEED OF RECORD - TRACT 'B'

NOTE:

THERE ARE NO RECENT CHANGES TO RIGHT-OF-WAY LINES. THE CITY ENGINEER IS CONSIDERING WIDENING THE RIGHT-OF-WAY TO 50' SO THAT SUBJECT TRACT CONFORMS TO ADJACENT TRACTS ON THE EAST AND WEST SIDES. THERE IS NO OBSERVABLE EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS.

NOTE:

TRACT 'A' IS THE SAME TRACT OF LAND AS DESCRIBED IN FIRST AMERICAN LAND TITLE INSURANCE COMPANY COMMITMENT No.591137 DATED SEPTEMBER 19, 2003.
TRACT 'B' IS THE SAME TRACT OF LAND AS DESCRIBED IN FIRST AMERICAN LAND TITLE INSURANCE COMPANY COMMITMENT No.S-25766 DATED JULY 1, 2003.

FLOOD PLAIN NOTE:

ACCORDING TO FLOOD INSURANCE RATE MAP COMMUNITY PANEL 390517 002 C, EFFECTIVE DATE JULY 5, 1982, SUBJECT TRACT LIES IN ZONE 'C'. (AREA OF MINIMAL FLOODING.) BASED ON THIS INFORMATION THIS PROPERTY IS NOT IN A SPECIAL FLOOD HAZARD AREA.

REFERENCE DIRECTION:

REFERENCE DIRECTION FOR BEARING SYSTEM USED WAS ESTABLISHED FROM STARK COUNTY RECORDERS IMAGE No.2002/11140092718; USING N06°19'40"E FOR THE EAST LINE OF THE NORTHWEST QUARTER, SECTION 9, PERRY TOWNSHIP.

CERTIFICATION

TO: LEVEY & COMPANY;
LOSALLE BANK NATIONAL ASSOCIATION, ITS SUCCESSORS AND ASSIGNS;
FIRST AMERICAN TITLE INSURANCE COMPANY;

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH "MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS," JOINTLY ESTABLISHED AND ADOPTED BY ALTA/ACSM AND NSPS IN 1999, AND INCLUDES ITEMS 1, 2, 3, 4, 6, 7a, 8, 9, 11a, 11b, 13 & 15 OF TABLE 'A' THEREOF. PURSUANT TO THE ACCURACY STANDARDS AS ADOPTED BY ALTA, NSPS AND ACSM AND IN EFFECT ON THE DATE OF THIS CERTIFICATION, THE UNDERSIGNED FURTHER CERTIFIES THAT THE SURVEY MEASUREMENTS WERE MADE IN ACCORDANCE WITH THE "MINIMUM ANGLE, DISTANCE AND CLOSURE REQUIREMENTS FOR SURVEY MEASUREMENTS WHICH CONTROL LAND BOUNDARIES FOR ALTA/ACSM LAND TITLE SURVEYS."

JEROLD E. GEIB
REGISTERED SURVEYOR No.6725

DATE

ALTA/ACSM LAND TITLE SURVEY

DRAWN BY: S.D.H.
CHECKED BY: M.L.M.
FIELD BOOK No. 581:47
DATE APRIL 2004
SHEET 1 OF 2
PROJECT # 03292REV

ALTA/ACSM LAND TITLE SURVEY
MEADOWS PLAZA SHOPPING CENTER
FOR: LEVEY & COMPANY

COOPER & ASSOCIATES, LLP
ENGINEERS AND SURVEYORS
1350 MARKET AVENUE
CANTON, OHIO 44704

BRYAN J. ASHMAN
JEROLD E. GEIB

REVISIONS									
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SHEET TITLE
ALTA

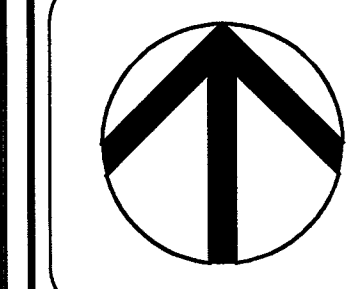
SCALE

DATE:
6/24/04

C2

PROJECT NUMBER
003-034

PROPOSED
MEADOWS PLAZA
REDEVELOPMENT
MASSILLON, OHIO

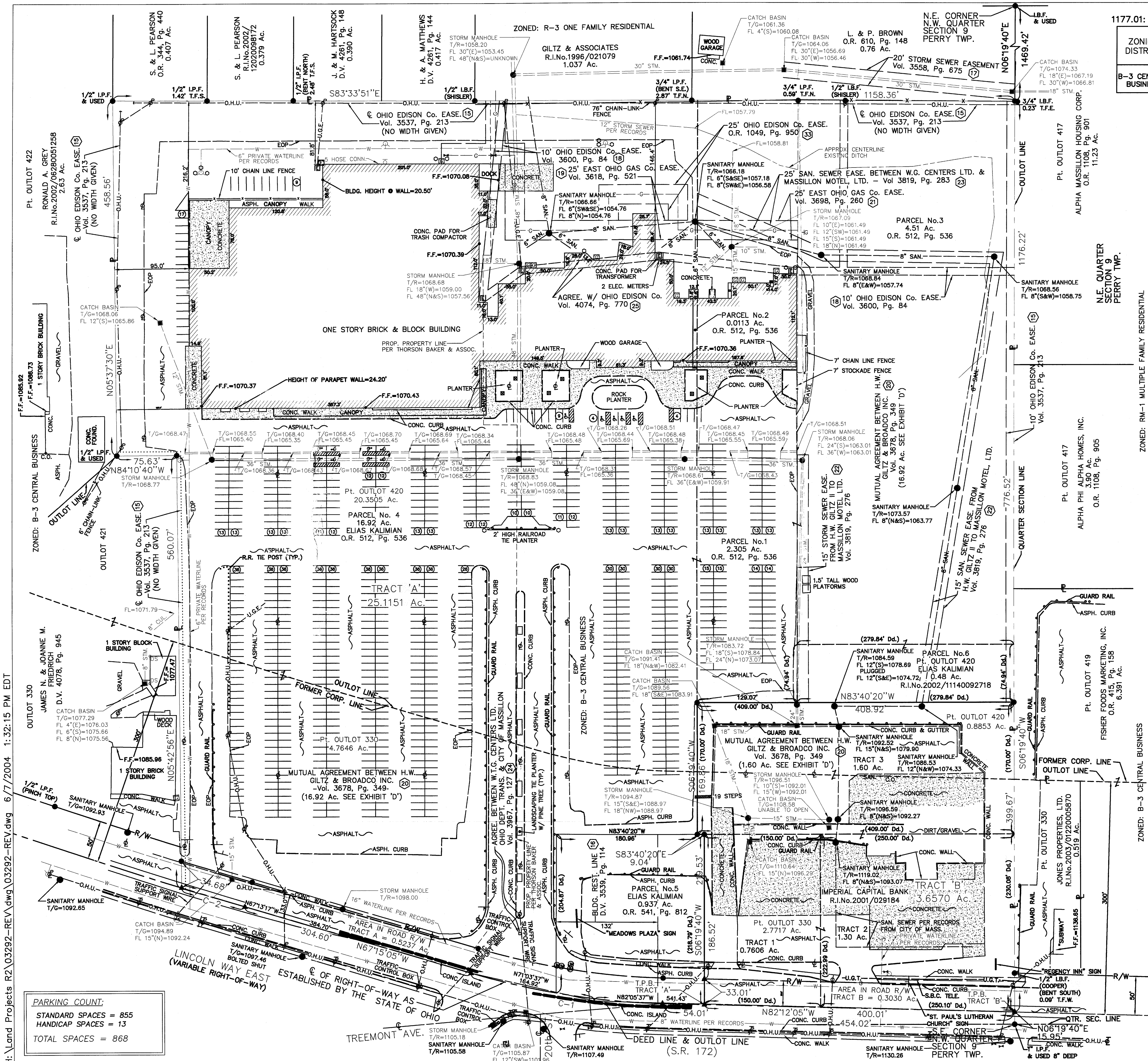


ISSUED FOR CONSTRUCTION
06/05/04
ISSUED FOR OWNER REVIEW
07/30/04
ISSUED FOR CITY REVIEW
07/09/04
ISSUED FOR REVIEW
06/25/04

THORSON BAKER & Associates, Inc.
Consulting Engineers
(330) 938-9988
(330) 938-9989
(330) 938-9990
3030 West Steamboat Road
Mansfield, Ohio 44922

CONTRACTOR:
AMCON
DESIGN AND CONSTRUCTION CO., LLC
1001 WESTERN COURT DRIVE SW, KENNESAW, GEORGIA 30144

OWNER/DEVELOPER:
LRC
LIVE FOR OWS
1000 RESERVE ROAD
PO BOX 1000



1177.01: HEIGHT, BULK, DENSITY AND AREA REGULATIONS

ZONING DISTRICT	MINIMUM LOT SIZE PER UNIT		STRUCTURE MAX. HEIGHT		MIN. YARD SETBACK (per lot in feet)		
	(sq.ft.)	(feet)	(stories)	(feet)	FRONT	EACH SIDE	REAR
B-3 CENTRAL BUSINESS	-----	-----	3	30	30 (f)	(g,i)	(g,i) 20 (h)

MIN. FLOOR AREA PER UNIT (sq.ft.)	MAX. LOT AREA COVERED (by all buildings)	MAX. FLOOR AREA RATIO (per lot)
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1177.01 SCHEDULE OF REGULATIONS 1208

(f) OFF STREET PARKING SHALL BE PERMITTED TO OCCUPY A PORTION OF THE REQUIRED FRONT YARD PROVIDED THAT THERE SHALL BE MAINTAINED A MINIMUM UNOBSTRUCTED AND LANDSCAPED SETBACK OF SIX FEET BETWEEN THE NEAREST POINT OF THE OFF-STREET PARKING AREA, EXCLUSIVE OF ACCESS DRIVEWAYS, AND THE NEAREST EXISTING AND PROPOSED RIGHT-OF-WAY LINE AS INDICATED ON THE MAJOR THOROUGHFARE PLAN. (Ord. 63-1975, PASSED 9-22-75.)

(g) NO SIDE YARDS ARE REQUIRED ALONG THE INTERIOR SIDE LOT LINES OF THE DISTRICT, EXCEPT AS OTHERWISE SPECIFIED IN THE BUILDING CODE, PROVIDED THAT IF WALLS OF STRUCTURES FACING SUCH INTERIOR SIDE LOT LINES CONTAIN WINDOWS, OR OTHER OPENINGS, SIDE YARDS OF NOT LESS THAN TEN FEET SHALL BE PROVIDED. ON A CORNER LOT WHICH BORDERS ON A RESIDENTIAL DISTRICT, THERE SHALL BE PROVIDED A SETBACK OF TWENTY FEET ON THE SIDE OR RESIDENTIAL STREET. ON AN EXTERIOR SIDE YARD ADJUTING A RESIDENTIAL DISTRICT OR ADJUTING A STREET THERE SHALL BE PROVIDED A SETBACK OF TEN FEET IN WIDTH. (Ord. 15-1973, PASSED 3-5-73.)

(h) LOADING SPACE SHALL BE PROVIDED IN THE REAR YARD AT THE RATE OF FIFTEEN PERCENT (15%) OF THE GROSS FLOOR AREA OF THE LARGEST STORY OR 200 SQUARE FEET, WHICHEVER IS GREATER AND SHALL BE COMPUTED SEPARATELY FROM THE AREA DESIGNATED TO MEET OFF-STREET PARKING REQUIREMENTS; EXCEPT IN THE INSTANCE OF 0-1 AND 0-2 DISTRICTS LOADING SPACE SHALL BE PROVIDED AT THE RATE OF EIGHT PERCENT (8%) OF THE GROSS FLOOR AREA OF THE LARGEST STORY OR 200 SQUARE FEET, WHICHEVER IS GREATER. (Ord. 106-1977, PASSED 11-21-77.)

(i) NO BUILDING SHALL BE CLOSER THAN TWENTY-FIVE FEET TO THE OUTER PERIMETER PROPERTY LINE OF SUCH DISTRICT, OR TO ANY MAJOR THOROUGHFARE. (Ord. 63-1975, PASSED 9-22-75.)

(j) OFF-STREET PARKING SHALL BE PERMITTED IN A REQUIRED SIDE YARD SETBACK.

- LEGEND**
- IRON BAR/PIPE FOUND (AS NOTED)
 - 1/2" IRON BAR W/ COOPER & ASSOCIATES CAP SET
 - ▲ M/C NAIL SET
 - POWER POLE
 - F/ER/LIGHT POLE
 - TELEPHONE/POWER POLE
 - TELEPHONE/LIGHT POLE
 - LIGHT POLE
 - SIGNAL SUPPORT POLE
 - GUY WIRE ANCHOR
 - OVERHEAD UTILITIES
 - UNDERGROUND UTILITIES
 - UTILITY MANHOLE
 - ELECTRIC OUTLET BOX
 - ELECTRIC TRANSFORMER
 - ELECTRIC METER
 - GAS METER
 - GAS VALVE
 - GAS LINE MARKER
 - DOWNSPOUT
 - CATCH BASIN
 - STORM MANHOLE
 - SANITARY MANHOLE
 - SANITARY CLEANOUT
 - HYDRANT
 - WATER VALVE
 - SPRINKLER VALVE
 - POST/BOLLARD
 - SIGN (AS NOTED)
 - CONIFEROUS TREE (AS NOTED)
 - DECIDUOUS TREE (AS NOTED)
 - BUSH/SHRUB
 - MAPLE TREE
 - OAK TREE
 - PINE TREE
 - FRUIT TREE
 - EDGE OF PAVEMENT
 - RIGHT-OF-WAY LINE
 - PROPERTY LINE
 - CENTERLINE
 - PARKING COUNTRY

CURVE 'C-1' DATA

R = 954.93'
L = 249.17'
Δ = 14°57'00"
T = 125.30'
Ch = 248.46'
ChBrg = N74°43'35"W

CURVE 'C-2' DATA

R = 5728.58'
L = 83.22'
Δ = 00°49'56"
T = 41.61'
Ch = 83.21'
ChBrg = N66°50'07"W

PARKING COUNT:
STANDARD SPACES = 855
HANDICAP SPACES = 13
TOTAL SPACES = 868

REVISIONS

NO.	DATE	DESCRIPTION
1	4/24/04	ISSUED FOR CONSTRUCTION
2	4/24/04	ISSUED FOR OWNER REVIEW
3	4/24/04	ISSUED FOR CITY REVIEW
4	4/24/04	ISSUED FOR REVIEW
5	4/24/04	ISSUED FOR REVIEW

OWNER/DEVELOPER: **AMCON INVESTORS**
CONTRACTOR: **THORSON BAKER & ASSOCIATES, INC.**
ENGINEERS AND SURVEYORS: **COOPER & ASSOCIATES, LLP**
1339 MARKET AVENUE, NORTH CANTON, OHIO 44705
PHONE (330) 452-5731
FAX (330) 452-5110

ALTA/ACSM LAND TITLE SURVEY
MEADOWS PLAZA SHOPPING CENTER
FOR: LEVEY & COMPANY

DRAWN BY: S.D.H.
CHECKED BY: M.L.M.
FIELD BOOK NO: 58147
DATE: APRIL 2004
SHEET 2 OF 2
PROJ. # 03292REV

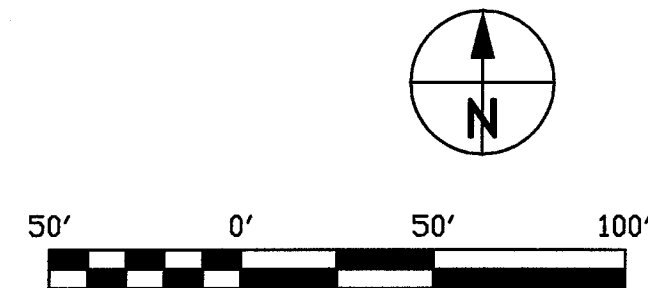
OWNER/DEVELOPER: **AMCON INVESTORS**
CONTRACTOR: **THORSON BAKER & ASSOCIATES, INC.**
ENGINEERS AND SURVEYORS: **COOPER & ASSOCIATES, LLP**
1339 MARKET AVENUE, NORTH CANTON, OHIO 44705
PHONE (330) 452-5731
FAX (330) 452-5110

ISSUED FOR CONSTRUCTION 06/09/04
ISSUED FOR OWNER REVIEW 07/30/04
ISSUED FOR CITY REVIEW 07/08/04
ISSUED FOR REVIEW 06/25/04

PROPOSED
MEADOWS PLAZA REDEVELOPMENT
MASSILLON, OHIO

SHEET TITLE
ALTA SURVEY

DATE: 6/14/04
C3
PROJECT NUMBER



HORZ. DATUM NAD 83 (1986)

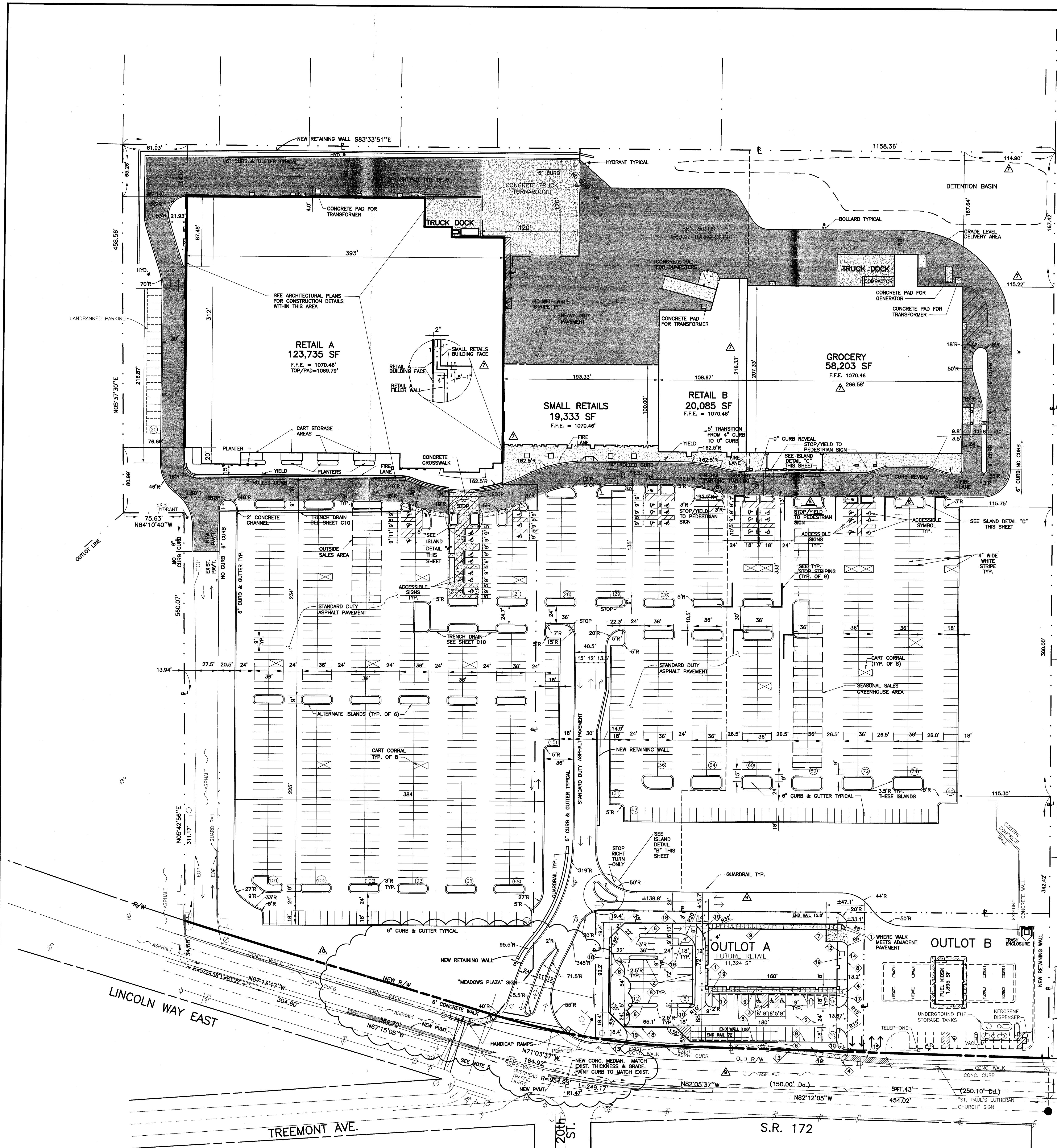
ZONED: RM-1 MULTIPLE FAMILY RESIDENTIAL

1

DATE: 8/21/2004

C4

dwg Name: 2003-C582CML30X42.dwg Scale: 1"=1'-0" Date: Aug. 09, 2004 Time: 2:26 pm



PARKING DATA			
RETAIL STORE A	5.0/1000 MIN. =	619 SPACES REQUIRED (619 PROVIDED)	5.0/1000 RATIO
RETAIL STORE B & SMALL RETAILS	5.0/1000 MIN. =	218 SPACES REQUIRED (227 PROVIDED)	5.2/1000 RATIO
GROCERY	6.0/1000 MIN. =	350 SPACES REQUIRED (350 PROVIDED)	6.0/1000 RATIO
		1187 SPACES REQUIRED (1196 PROVIDED)	

1196 TOTAL SPACES (1165 STANDARD SPACES + 31 HANDICAP SPACES)
5.3/1000 OVERALL SITE RATIO
225,408 SF TOTAL

ALL PARTIES TO HAVE CROSS PARKING & SITE ACCESS UNDER OEA
60' WIDTH FROM CENTER OF PARKING BAY TO CENTERLINE OF PARKING BAY
PROPOSED MAIN ENTRANCE DRIVE FROM LINCOLN WAY EAST DESIGNED AT 7% SLOPE.

LEGEND

HEAVY DUTY ASPHALT PAVEMENT

CONCRETE

ZONING INFORMATION

EXISTING ZONING B-3 CENTRAL BUSINESS
PROPOSED ZONING B-3 CENTRAL BUSINESS

SETBACK DATA

	BUILDING REQUIRED	PARKING REQUIRED
FRONT	30'	30'
REAR	20'	10'
SIDE (REQUIRED ONLY WHEN NEXT TO RESIDENTIAL)	10'	10'

SITE DATA

PARCEL DESCRIPTION	APPROXIMATE ACREAGE	BUILDING AREA
RETAIL STORE A	10.85 AC	123,735 SF
RETAIL STORE B & SMALL RETAILS	5.87 AC	43,470 SF
GROCERY	8.79 AC	58,203 SF
OUTLOT A	1.41 AC	11,324 SF
OUTLOT B	1.03 AC	1,895 SF

ISLAND DETAIL "A"

SCALE: 1"=30'

ISLAND DETAIL "B"

SCALE: 1"=30'

ISLAND DETAIL "C"

SCALE: 1"=10'

KEYED NOTES FOR OUTLOT A

1. INTEGRAL CONCRETE CURB & WALK
2. STD. DUTY ASPHALT PAVEMENT & STRIPING
3. A.D.A. PARKING SPACES WITH A.D.A. SIGNS
4. A.D.A. ACCESSIBLE RAMP
5. WHEELSTOPS
6. LIGHT POLE STANDARD; SEE ELECTRICAL
7. TRASH ENCLOSURE AREA W/ HD CONCRETE; SCREEN WALL BY ARCHITECT.
8. CONCRETE VERTICAL CURB (ODOT TYPE 6)
9. CONCRETE SIDEWALK; SLOPE $\geq 1/4"$ /FT AWAY FROM BLDG.
10. STOP SIGNS AND STOP BAR
11. DETECTABLE WARNING STRIP W/ TRUNCATED DOMES
12. TRANSFORMER PAD
13. NEW CONCRETE WALK PER CITY STD.
14. SAWCUT EX. ASPH. PROVIDE JOINT WITH NEW CURB PER ODOT TYPE 6 DETAIL
15. CROSSWALK LINES PER CITY STD.
16. RIVER ROCK STONE
17. CURB TAPER; 6" IN 42"
18. RETAINING WALL (BY OTHERS) W/ RAIL
19. LANDSCAPE AREA

ACCESSIBLE PARKING DETAIL

SCALE: 1"=40'

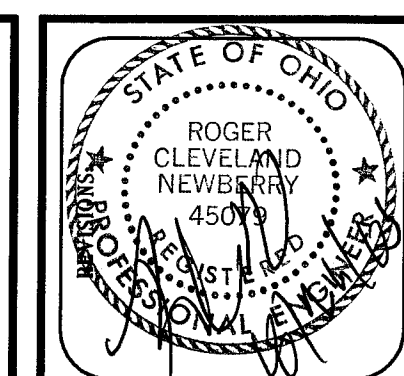
TYP. STOP STRIPING

SCALE: 1"=10'

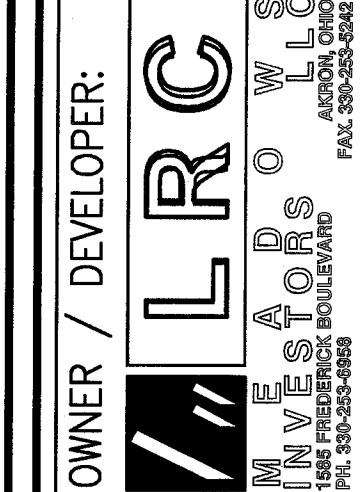
TARGET

REVIEWED BY: _____
DEVELOPMENT MANAGER _____
REVISION AND RESUBMIT _____ NOT REVIEWED _____ APPROVED AS NOTED _____ APPROVED _____
PROJECT ARCHITECT _____
REVISION AND RESUBMIT _____ NOT REVIEWED _____ APPROVED AS NOTED _____ APPROVED _____
PROJECT ENGINEER (M) _____
REVISION AND RESUBMIT _____ NOT REVIEWED _____ APPROVED AS NOTED _____ APPROVED _____
PROJECT ENGINEER (E) _____
REVISION AND RESUBMIT _____ NOT REVIEWED _____ APPROVED AS NOTED _____ APPROVED _____
PROJECT ENGINEER (S) _____
REVISION AND RESUBMIT _____ NOT REVIEWED _____ APPROVED AS NOTED _____ APPROVED _____
APPROVED ONLY FOR CONFORMANCE OF THE SITE CONSTRUCTION DOCUMENTS TO TARGET DEVELOPER GUIDE, EDITION 2.4 AND THE TARGET BUILDING DOCUMENTS. CONSULTANT IS SOLELY RESPONSIBLE FOR COMPLETENESS, ACCURACY, AND DIMENSIONS ON THE CONSTRUCTION DOCUMENTS.

2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE: 800-362-2764
OHIO UTILITIES PROTECTION SERVICE



OWNER / DEVELOPER:



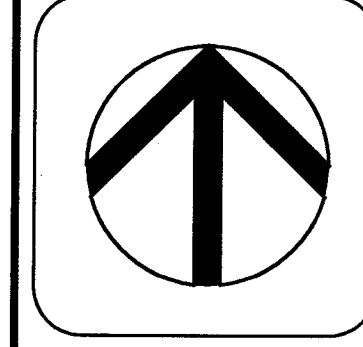
AMCON
DESIGN AND CONSTRUCTION CO., LLC
1100 WESTERN AVENUE SUITE 100 WAREHOUSING, INDIANAPOLIS, IN 46204
TEL: 317-555-5555 FAX: 317-555-5556

CONTRACTOR:

THORSON BAKER & Associates, Inc.
Consulting Engineers
13300 E. 12th Avenue, Suite 100
Denver, CO 80231
TEL: 303-751-1234 FAX: 303-751-1235

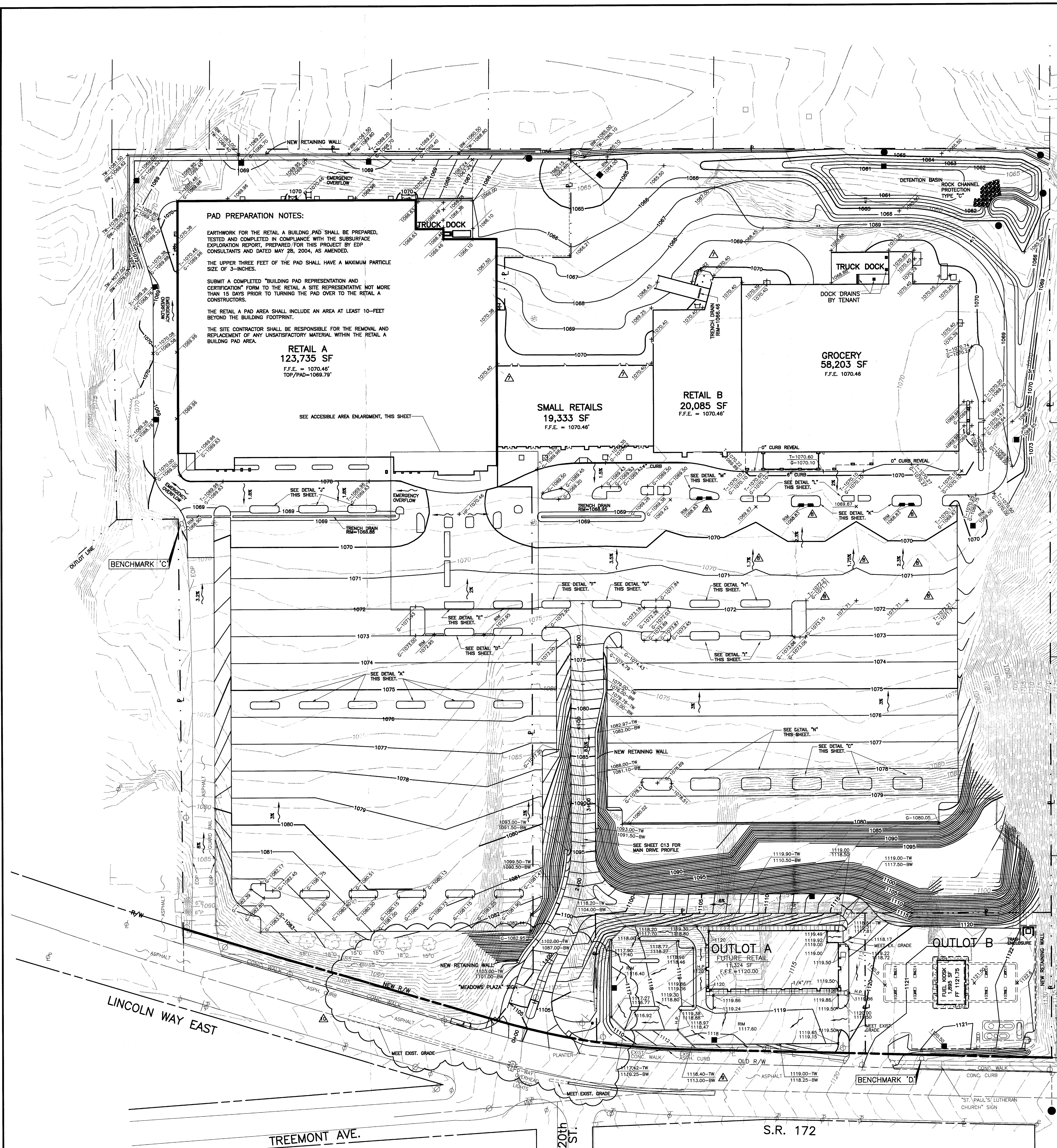
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- ENTRANCE DRIVE & OUTLOT "A" 07/29/05
- ENTRY DRIVE & OUTLOT "A" 06/08/05
- REVISE GRADES & DRAINS 05/23/05
- REVISE SMALL RETAILS 04/26/05
- GIANT SCALE COMMENTS 02/04/05
- TARGET COMMENTS 01/17/05
- ISSUED FOR CONSTRUCTION & REVISED PER RETAIL A COMMENTS 08/09/04
- ISSUED FOR OWNER REVIEW 07/30/04
- ISSUED FOR CITY 07/08/04
- ISSUED FOR REVIEW 05/25/04

PROPOSED
**MEADOWS PLAZA
REDEVELOPMENT
MASSILLON, OHIO**



SHEET TITLE
**SITE GEOMETRIC
PLAN**
SCALE: 1"=40'

DATE:
6/21/2004
C7



PAD PREPARATION NOTES:

EARTHWORK FOR THE RETAIL A BUILDING PAD SHALL BE PREPARED, TESTED AND COMPLETED IN COMPLIANCE WITH THE SUBSURFACE EXPLORATION REPORT, PREPARED FOR THIS PROJECT BY EDP CONSULTANTS AND DATED MAY 28, 2004, AS AMENDED.

THE UPPER THREE FEET OF THE PAD SHALL HAVE A MAXIMUM PARTICLE SIZE OF 3-INCHES.

SUBMIT A COMPLETED "BUILDING PAD REPRESENTATION AND CERTIFICATION" FORM TO THE RETAIL A SITE REPRESENTATIVE NOT MORE THAN 15 DAYS PRIOR TO TURNING THE PAD OVER TO THE RETAIL A CONSTRUCTORS.

THE RETAIL A PAD AREA SHALL INCLUDE AN AREA AT LEAST 10'-FEET BEYOND THE BUILDING FOOTPRINT.

THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ANY UNSATISFACTORY MATERIAL WITHIN THE RETAIL A BUILDING PAD AREA.

RETAIL A
123,735 SF
F.F.E. = 1070.45'
TOP/PAD=1069.79'

SMALL RETAILS
19,333 SF
F.F.E. = 1070.46'

RETAIL B
20,085 SF
F.F.E. = 1070.46'

GROCERY
58,203 SF
F.F.E. 1070.46

SEE ACCESSIBLE AREA ENLARGEMENT, THIS SHEET

SEE DETAIL "A" THIS SHEET

SEE DETAIL "B" THIS SHEET

SEE DETAIL "C" THIS SHEET

SEE DETAIL "D" THIS SHEET

SEE DETAIL "E" THIS SHEET

SEE DETAIL "F" THIS SHEET

SEE DETAIL "G" THIS SHEET

SEE DETAIL "H" THIS SHEET

SEE DETAIL "I" THIS SHEET

SEE DETAIL "J" THIS SHEET

SEE DETAIL "K" THIS SHEET

SEE DETAIL "L" THIS SHEET

SEE DETAIL "M" THIS SHEET

SEE DETAIL "N" THIS SHEET

SEE DETAIL "O" THIS SHEET

SEE DETAIL "P" THIS SHEET

SEE DETAIL "Q" THIS SHEET

SEE DETAIL "R" THIS SHEET

SEE DETAIL "S" THIS SHEET

SEE DETAIL "T" THIS SHEET

SEE DETAIL "U" THIS SHEET

SEE DETAIL "V" THIS SHEET

SEE DETAIL "W" THIS SHEET

SEE DETAIL "X" THIS SHEET

SEE DETAIL "Y" THIS SHEET

SEE DETAIL "Z" THIS SHEET

SEE DETAIL "AA" THIS SHEET

SEE DETAIL "AB" THIS SHEET

SEE DETAIL "AC" THIS SHEET

SEE DETAIL "AD" THIS SHEET

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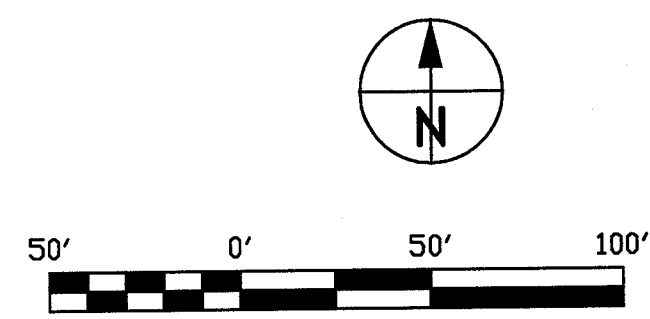
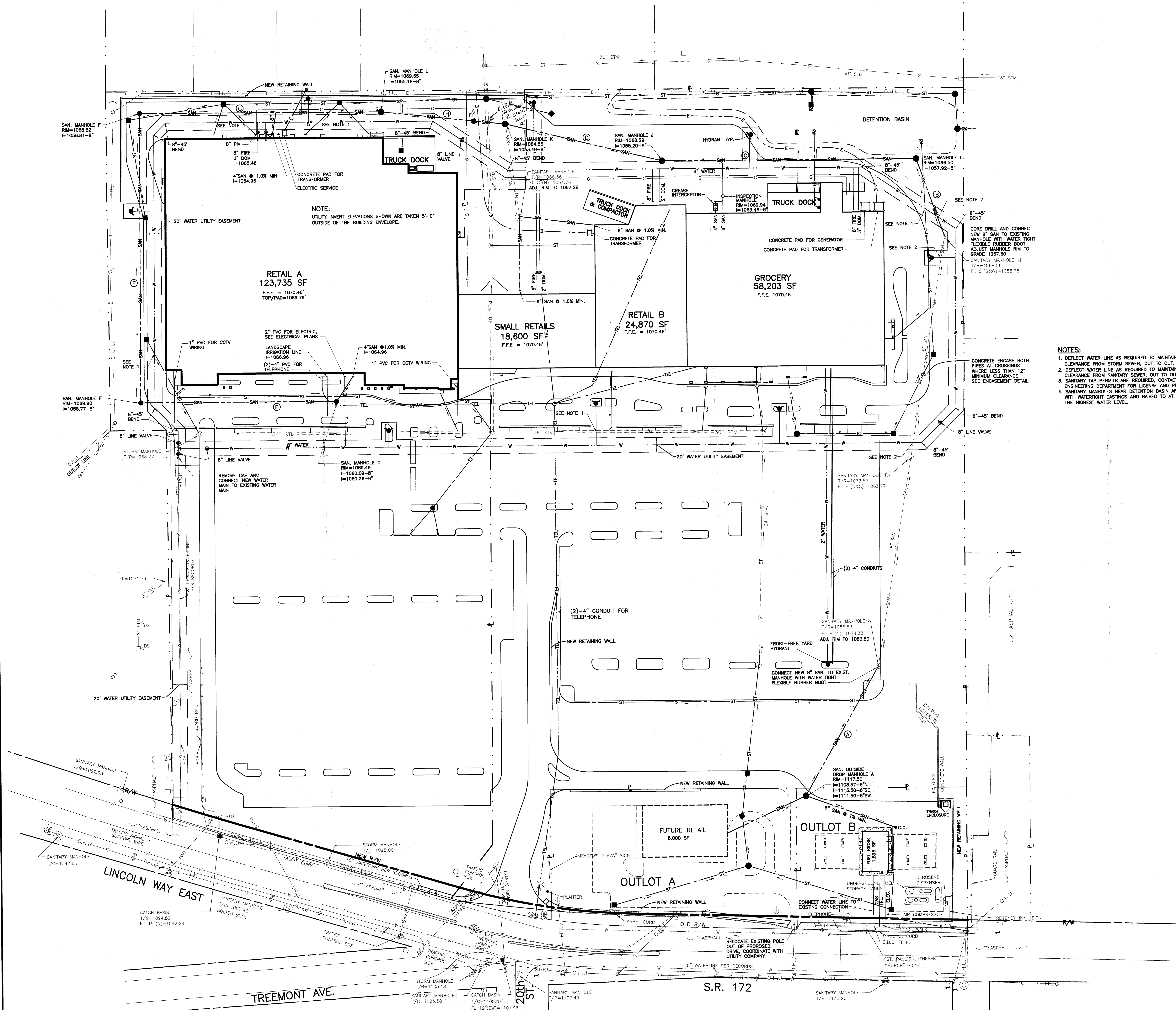
SEE DETAIL "JL" THIS SHEET

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- NOTES:**
1. DEFLECT WATER LINE AS REQUIRED TO MAINTAIN 12" MINIMUM VERTICAL CLEARANCE FROM STORM SEWER, OUT TO OUT.
 2. DEFLECT WATER LINE AS REQUIRED TO MAINTAIN 18" MINIMUM VERTICAL CLEARANCE FROM "SANITARY SEWER, OUT TO OUT.
 3. SANITARY TAP PERMITS ARE REQUIRED, CONTACT CITY OF MASSILLON ENGINEERING DEPARTMENT FOR LICENSE AND PERMIT REQUIREMENTS.
 4. SANITARY MANHOLES NEAR DETENTION BASIN AREA SHALL BE FITTED WITH WATERTIGHT CASTINGS AND RAISED TO AT LEAST 1 FOOT ABOVE THE HIGHEST WATER LEVEL.

SANITARY SEWER PIPE DATA			
PIPE NUMBER	LENGTH (FT)	PIPE SIZE	SLOPE (%)
(A)	201	8"	17.03
(B)	111	8"	0.75
(C)	344	8"	0.79
(D)	217	8"	0.79
(E)	264	8"	0.50
(F)	391	8"	0.50
(G)	326	8"	0.50
(H)	169	8"	1.00

REVIEWED BY:

DEVELOPMENT MANAGER _____ NOT REVIEWED _____ APPROVED AS NOTED _____ APPROVED _____

PROJECT ARCHITECT _____ NOT REVIEWED _____ APPROVED AS NOTED _____ APPROVED _____

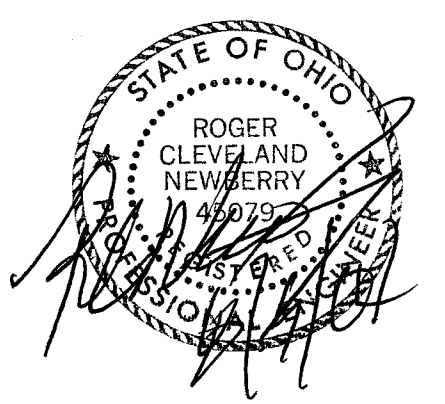
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PROJECT ENGINEER (E) _____ NOT REVIEWED _____ APPROVED AS NOTED _____ APPROVED _____

PROJECT ENGINEER (S) _____ NOT REVIEWED _____ APPROVED AS NOTED _____ APPROVED _____

APPROVED ONLY FOR CONFORMANCE OF THE SITE CONSTRUCTION DOCUMENTS TO TARGET DEVELOPER GUIDE, EDITION 2.4 AND THE TARGET BUILDING DOCUMENTS. CONSULTANT IS SOLELY RESPONSIBLE FOR COMPLETENESS, ACCURACY, AND DIMENSIONS ON THE CONSTRUCTION DOCUMENTS.

2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE: 800-362-2764
OHIO UTILITIES PROTECTION SERVICE



OWNER/DEVELOPER

LRG

MASSILLON, OHIO

3030 West Stevenson Road
Massillon, Ohio 44862
TEL: 330-588-8888 FAX: 330-588-8889

CONTRACTOR

AMCON

DESIGN AND CONSTRUCTION CO., LLC

3030 West Stevenson Road
Massillon, Ohio 44862
TEL: 330-588-8888 FAX: 330-588-8889

ISSUED FOR CONSTRUCTION & REVISED PER RETAIL A COMMENTS

08/09/04

ISSUED FOR OWNER REVIEW

07/30/04

ISSUED FOR CITY REVIEW

07/08/04

ISSUED FOR REVIEW

06/25/04

PROPOSED

MEADOWS PLAZA REDEVELOPMENT

MASSILLON, OHIO

TARGET

REVIEWED BY:

DEVELOPMENT MANAGER _____ NOT REVIEWED _____ APPROVED AS NOTED _____ APPROVED _____

PROJECT ARCHITECT _____ NOT REVIEWED _____ APPROVED AS NOTED _____ APPROVED _____

PROJECT ENGINEER (M) _____ NOT REVIEWED _____ APPROVED AS NOTED _____ APPROVED _____

PROJECT ENGINEER (E) _____ NOT REVIEWED _____ APPROVED AS NOTED _____ APPROVED _____

PROJECT ENGINEER (S) _____ NOT REVIEWED _____ APPROVED AS NOTED _____ APPROVED _____

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SHEET TITLE

SITE UTILITIES PLAN

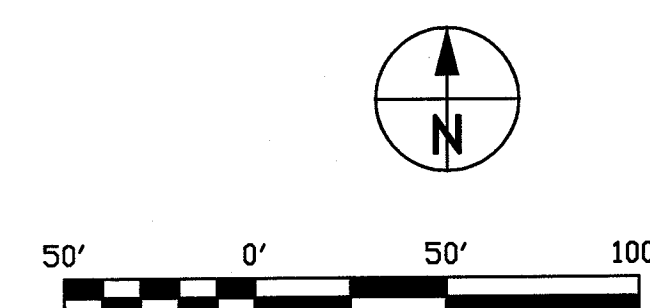
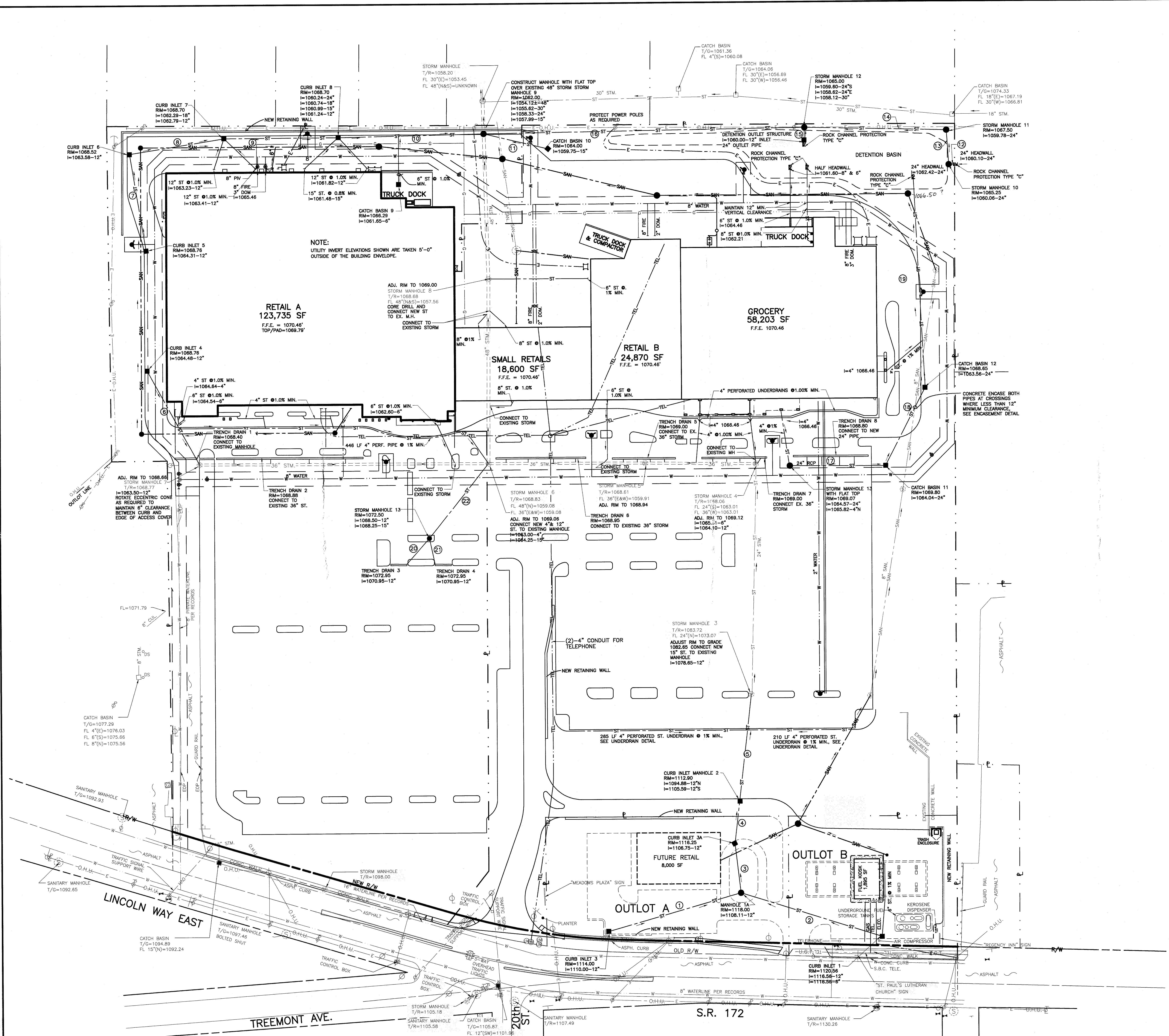
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DATE:

8/11/2024

C9

PROJECT NUMBER



PIPE NUMBER	LENGTH (FT)	PIPE SIZE	SLOPE (%)
1	182	12"	1.04
2	201	12"	4.20
3	68	12"	2.00
4	58	12"	2.00
5	148	12"	10.97
6	147	12"	0.67
7	134	12"	0.54
8	131	12"	0.60
9	155	18"	1.00
10	206	24"	0.93
11	47	24"	2.00
12	6	24"	0.60
13	47	24"	0.60
14	193	24"	0.60
15	20	24"	2.00
16	432	30"	0.60
17	131	24"	0.40
18	120	24"	0.40
19	286	24"	0.40
20	47	12"	5.21
21	36	12"	6.80
22	128	12"	3.13

NOTE: ALL TRENCH DRAIN CONNECTIONS TO EXISTING STORM SYSTEM SHALL BE 12" PIPE.

● TARGET

REVIEWED BY: _____

DEVELOPMENT MANAGER
 REVISION AND RESUBMIT ☐ NOT REVIEWED ☐ APPROVED AS NOTED ☐ APPROVED

PROJECT ARCHITECT
 REVISION AND RESUBMIT ☐ NOT REVIEWED ☐ APPROVED AS NOTED ☐ APPROVED

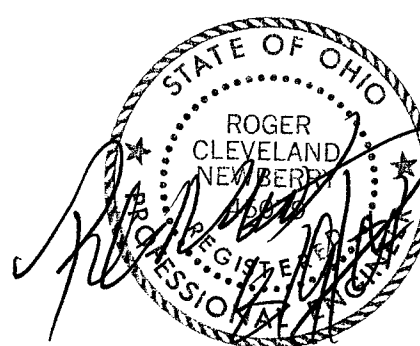
PROJECT ENGINEER (M)
 REVISION AND RESUBMIT ☐ NOT REVIEWED ☐ APPROVED AS NOTED ☐ APPROVED

PROJECT ENGINEER (S)
 REVISION AND RESUBMIT ☐ NOT REVIEWED ☐ APPROVED AS NOTED ☐ APPROVED

PROJECT ENGINEER (S)
 REVISION AND RESUBMIT ☐ NOT REVIEWED ☐ APPROVED AS NOTED ☐ APPROVED

APPROVED ONLY FOR CONFORMANCE OF THE SITE CONSTRUCTION DOCUMENTS TO TARGET DEVELOPER GUIDE, EDITION 2.4 AND THE TARGET BUILDING DOCUMENTS. CONSULTANT IS SOLELY RESPONSIBLE FOR COMPLETENESS, ACCURACY, AND DIMENSIONS ON THE CONSTRUCTION DOCUMENTS.

2 WORKING DAYS
 BEFORE YOU DIG
 CALL TOLL FREE: 800-362-2764
 OHIO UTILITIES PROTECTION SERVICE



REVISIONS:

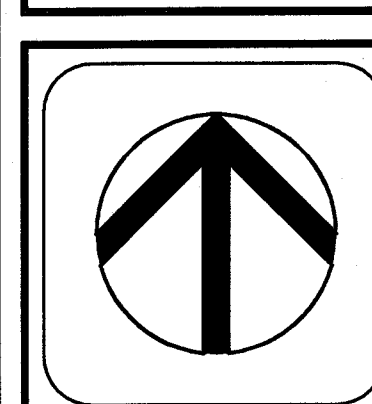
OWNER / DEVELOPER:
L R C INVESTORS LLC
 10000 BROADWAY
 SUITE 200
 CLEVELAND, OHIO 44101-2000
 (216) 593-8888

CONTRACTOR:
AMCON
 DESIGN AND CONSTRUCTION CO., LLC
 10000 BROADWAY
 SUITE 200
 CLEVELAND, OHIO 44101-2000
 (216) 593-8888

THORSON BAKER & Associates, Inc.
 Consulting Engineers
 3030 West 14th Street
 Cleveland, Ohio 44115
 (216) 426-4000
 Fax: (216) 426-4001

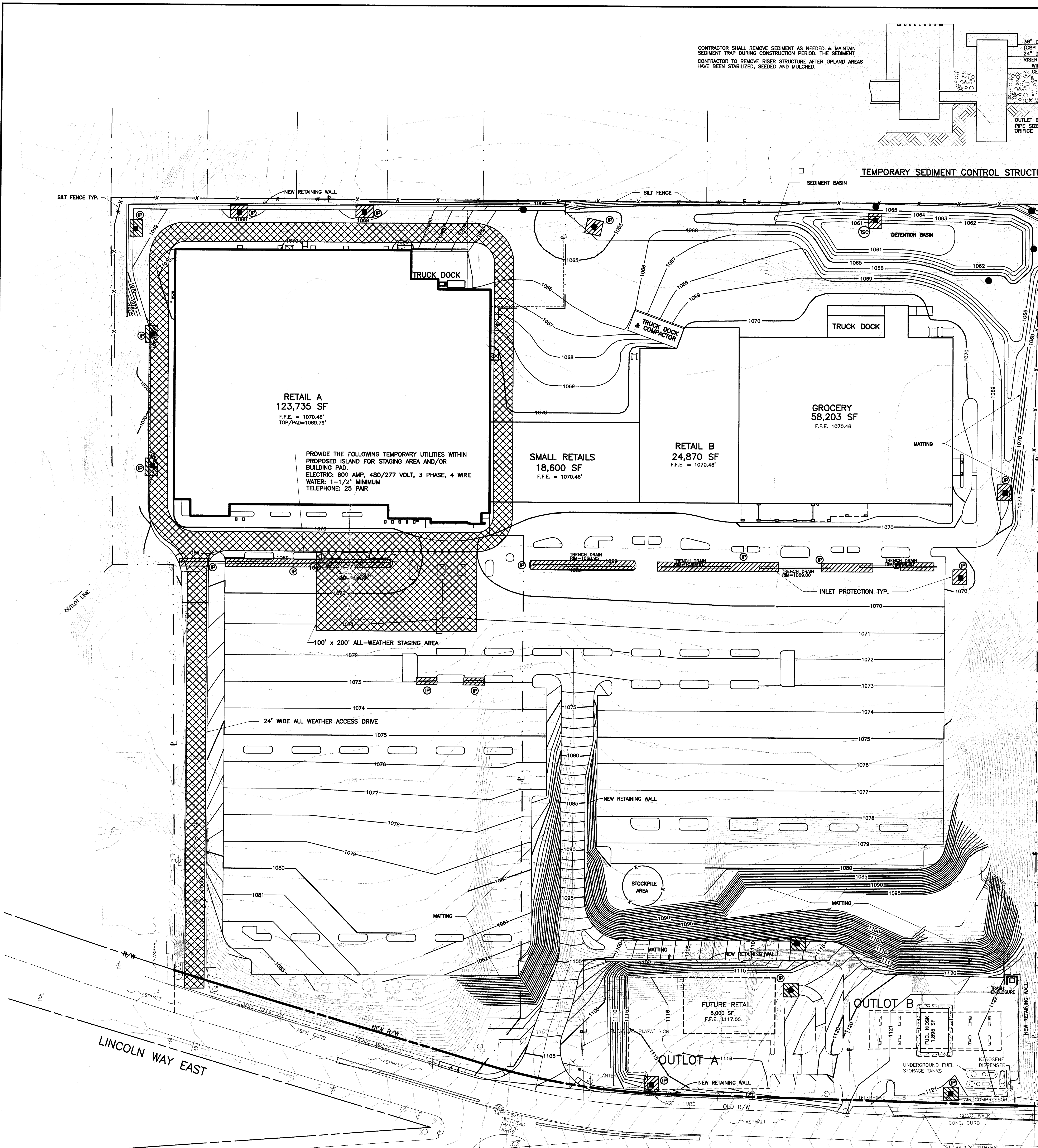
ISSUED FOR CONSTRUCTION & REVISED PER RETAIL A COMMENTS
 08/09/04
 ISSUED FOR OWNER REVIEW
 07/30/04
 ISSUED FOR CITY REVIEW
 07/08/04
 ISSUED FOR REVIEW
 06/22/04

PROPOSED
MEADOWS PLAZA REDEVELOPMENT
 MASSILLON, OHIO

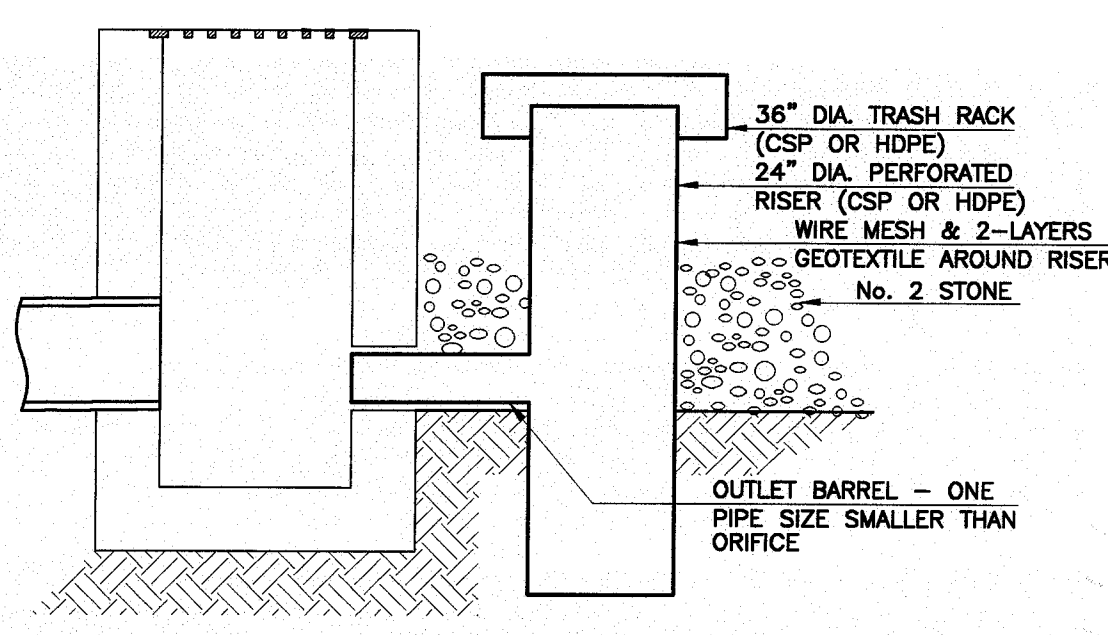


SHEET TITLE
SITE STORM DRAIN PLAN
 SCALE: 1"=40'

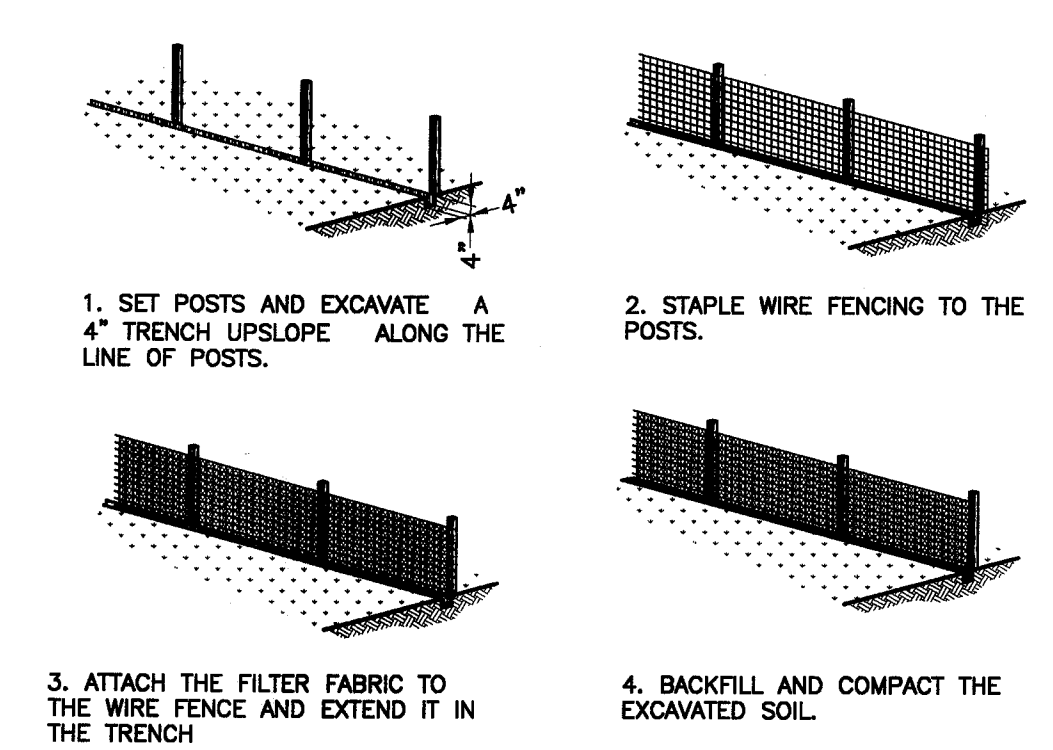
DATE:
 8/21/2004
C10
 PROJECT NUMBER



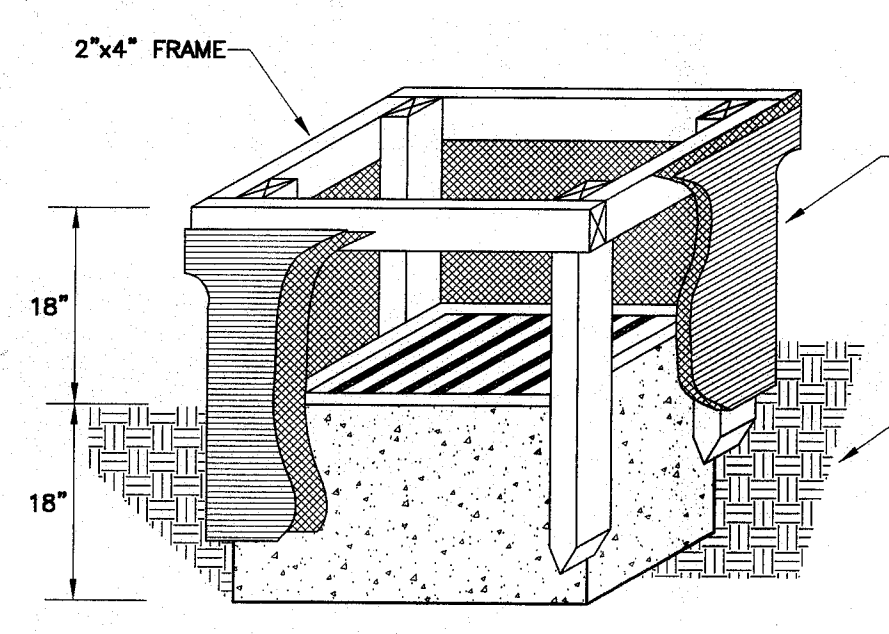
CONTRACTOR SHALL REMOVE SEDIMENT AS NEEDED & MAINTAIN SEDIMENT TRAP DURING CONSTRUCTION PERIOD. THE SEDIMENT TRAP SHALL BE REMOVED AFTER UPLAND AREAS HAVE BEEN STABILIZED, SEEDED AND MULCHED.



TEMPORARY SEDIMENT CONTROL STRUCTURE (TSC)



SILT FENCE (SF)



INLET PROTECTION (IP)

TEMPORARY SEEDING SPECIES SELECTION

SEEDING DATES	SPECIES	LB./1,000 FT. PER AC.
MARCH 1 - AUGUST 15	OATS	3
	TALL FESCUE	1
	PERENNIAL RYEGRASS	1
	PERENNIAL RYEGRASS	1
	TALL FESCUE	1
AUGUST 16 - NOVEMBER 1	RYE	3
	TALL FESCUE	1
	PERENNIAL RYEGRASS	1
	WHEAT	3
	TALL FESCUE	1
	PERENNIAL RYEGRASS	1
	TALL FESCUE	1
NOVEMBER 1 - FEBRUARY 28	SEEDING	Y. SEEDING PRACTICES OR DORMANT

SEEDING:
APPLY AS EARLY IN THE DAY AS POSSIBLE, BUT NO LATER THAN THE END OF THE DAY TO BENEFIT FROM MOISTURE STILL IN THE SURFACE LAYER.
APPLY UNIFORMLY OVER THE AREA TO BE PROTECTED WITH A CYCLONE SEEDER, DRILL, HYDROSEEDER OR CULTIPACKER SEEDER.
IMMEDIATELY PROTECT WITH STRAW MULCH.
APPLY ON AREAS THAT ARE NOT TO BE GRADED OR REWORKED FOR 21 TO 45 DAYS OR MORE.
LIME AND FERTILIZER BASED ON SOIL TESTS FOR NUTRIENT REQUIREMENTS FOR ADEQUATE GROWTH.
MULCHING:
APPLY STRAW AT THE RATE OF 90 LBS. PER 1,000 SQUARE FEET (2-3 BALES) OR 2 TONS PER ACRE.
OR OTHER MULCHES ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

LIME & FERTILIZER:
TAKE A SOIL TEST TO DETERMINE ACTUAL AMOUNTS OF NITROGEN, PHOSPHORUS AND POTASH NEEDED.
OR APPLY 15 POUNDS OF 10-10-10 PER 1,000 SQUARE FEET.
ADD LIME AT THE RATE OF 100 POUNDS PER 1,000 SQUARE FEET.
TIMELINE:
IMMEDIATELY AFTER HE WORK IS COMPLETED.
NO LATER THAN AT THE END OF THE DAY.

TEMPORARY SEEDING (TS)

SPECIFICATIONS FOR MATTING

1. MATERIAL - EXCLESIOR MATTING SHALL BE 48 INCHES WIDE AND WEIGH AN AVERAGE OF 0.75 LB./SQ. YD. OR GREATER. JUTE MATTING SHALL BE 48 INCHES WIDE AND WEIGH AN AVERAGE OF 1.2 LB./YD. OR GREATER. MATTING MADE OF OTHER MATERIAL AND PROVIDING EQUAL OR GREATER STABILIZATION THAN THE ABOVE MAY BE SUBSTITUTED.

2. SITE PREPARATION - AFTER THE SITE HAS BEEN SHAPED AND GRADED, A SEEDBED SHALL BE PREPARED THAT IS RELATIVELY FREE OF FOREIGN MATERIAL, CLODS OR ROCKS THAT ARE GREATER THAN 1.5 INCHES IN DIAMETER. THE SITE SHALL BE PREPARED TO ENSURE THAT THE MATTING HAS GOOD SOIL CONTACT AND THE MATTING WILL NOT BRIDGE OR TENT OVER OBSTRUCTIONS.

3. MATTING SHALL BE HELD IN PLACE AS RECOMMENDED BY THE MANUFACTURER AS ADEQUATE FOR THE SITE CONDITIONS OR WITH SOD STAPLES. SOD STAPLES ARE U-SHAPED WIRE STAPLES USED FOR FASTENING SOD, JUTE OR EXCLESIOR MATTING AND OTHER EROSION-CONTROL MATERIALS TO THE SOIL SURFACE. SOD STAPLES SHALL BE NO. 11 GAUGE OR HEAVIER AND BE 6 TO 10 INCHES IN LENGTH. IN LOOSE OR SANDY SOILS, LONGER STAPLES SHALL BE USED.

4. PLANTING - LIME AND FERTILIZER SHALL BE USED ACCORDING TO THE RECOMMENDATION OF A SOIL TEST OR THE SEEDING PLAN. SEED ACCORDING TO THE MATTING MANUFACTURER'S RECOMMENDATIONS, OR, FOR EXCLESIOR MATTING, SEED AREA TO BE PROTECTED BEFORE INSTALLATION; OR WHEN USING JUTE MATTING, APPLY HALF THE SEED BEFORE AND HALF THE SEED AFTER INSTALLATION.

5. MATTING SHALL BE INSTALLED AS SPECIFIED BY THE MANUFACTURER AS APPROPRIATE FOR THE SITE CONDITIONS OR THE FOLLOWING PROCEDURE MAY BE USED:
AFTER THE SITE IS PREPARED AND EROSION STOPS ARE INSTALLED, START LAYING THE MAT FROM THE TOP OF THE SLOPE OR CHANNEL AND UNROLL THE MATTING ALLOWING 4 INCH OVERLAPS AT THE EDGES.
SECURE THE MATTING BY BURYING THE TOP ENDS IN A TRENCH 6 INCHES DEEP AND STAPLE THE FOLDED ENDS TO THE BOTTOM OF THE TRENCH. BACKFILL AND TAMP FIRMLY TO THE ESTABLISHED GRADE.
STAPLE MATTING EVERY 12 INCHES ACROSS THE WIDTH BEGINNING AT THE EDGES AND EVERY 2 FT. IN ROWS THE ENTIRE LENGTH OF THE MATTING. EVERY OTHER ROW OF STAPLES RUNNING THE LENGTH OF THE MATTING SHOULD BE STAGGERED.
TO JOIN TWO ROLLS TOGETHER, CUT A TRENCH TO ANCHOR THE END OF THE NEW ROLL AND SECURE IT TO THE SAME AS THE TOP ROLL. OVERLAP THE END OF THE PREVIOUS ROLL 18 INCHES OVER THE NEW ROLL. CONTINUE TO STAPLE AS DESCRIBED ABOVE.
WHEN USING EXCLESIOR MATTING, THE PLASTIC NETTING SHALL BE ON TOP OF THE WOOD FIBER.
6. EROSION STOPS SHALL BE USED WHERE RECOMMENDED BY THE MATTING MANUFACTURER AND ON AREAS SPECIFIED WHERE HIGH-EROSION POTENTIAL MAY CAUSE UNDERMINING AND GULLIES TO FORM BENEATH THE MATTING.
EROSION STOPS SHALL BE MADE OF STRIPS OF MATTING PLACED IN NARROW TRENCHES TO 12 INCHES DEEP THAT COVER THE FULL CROSS SECTION OF THE CHANNEL. THEY SHALL BE SPACED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS OR BY THE FOLLOWING:
- 3 FT. DOWN THE CHANNEL FROM EACH POINT OF ENTRY OF CONCENTRATED FLOW.
- AT POINTS WHERE CHANGE IN GRADIENT OR DIRECTION OF CHANNEL OCCURS, AND
- ON LONG SLOPES AT SPACING FROM 20 - 100 FT. DEPENDING UPON THE EROSION OF THE SOIL, VELOCITY AND VOLUME OF FLOW.
EROSION STOPS SHALL EXTEND BEYOND THE CHANNEL LINER TO THE FULL DESIGN WIDTH OF THE CHANNEL. THIS WILL CHECK ANY RILLS THAT MIGHT FORM OUTSIDE OR ALONG THE EDGE OF THE CHANNEL LINING.
EROSION STOPS SHALL BE CONSTRUCTED WITH 6 INCH DEEP TRENCH, STAPLED TO THE BOTTOM OF THE TRENCH, BACKFILLED AND TAMPED FIRMLY TO CONFORM WITH THE CROSS SECTION OF THE CHANNEL.
IF SEEDING HAS BEEN DONE PRIOR TO INSTALLATION OF EROSION STOPS, RESEED DISTURBED AREAS PRIOR TO PLACEMENT OF CHANNEL LINER.

MATTING (M)

TARGET

REVIEWED BY:

DESIGN/ENGINEER	REVISOR	DATE
REVISOR	DATE	
PROJECT ARCHITECT	REVISOR	DATE
PROJECT ENGINEER (M)	REVISOR	DATE
PROJECT ENGINEER (E)	REVISOR	DATE
PROJECT ENGINEER (S)	REVISOR	DATE

APPROVED ONLY FOR CONFORMANCE OF THE SITE CONSTRUCTION DOCUMENTS TO TARGET DEVELOPER GUIDE, EDITION 2.4 AND THE TARGET BUILDING DOCUMENTS. CONSULTANT IS SOLELY RESPONSIBLE FOR COMPLETENESS, ACCURACY, AND DIMENSIONS ON THE CONSTRUCTION DOCUMENTS.



OWNER / DEVELOPER: **LRC INVESTORS**

CONTRACTOR: **AMCON DESIGN AND CONSTRUCTION CO., LLC**

ISSUED FOR CONSTRUCTION: 08/09/04
ISSUED FOR OWNER REVIEW: 07/30/04
ISSUED FOR CITY REVIEW: 07/08/04
ISSUED FOR REVIEW: 08/25/04

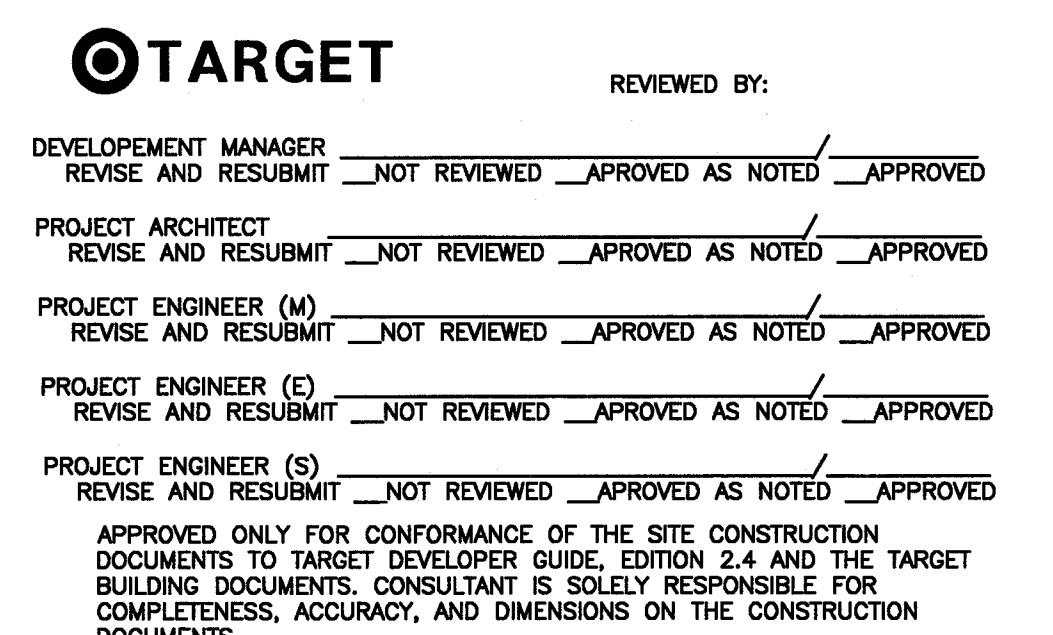
PROPOSED: **MEADOWS PLAZA REDEVELOPMENT MASSILLON, OHIO**

SHEET TITLE: **STORM WATER POLLUTION PREVENTION PLAN**

SCALE: 1"=40'

DATE: 8/25/2004

C11



C12

Dwg Name: 2003-0882CML30X42.dwg Scale: 1'=1'-0" Date: Aug. 09, 2004 Time: 2:45 pm

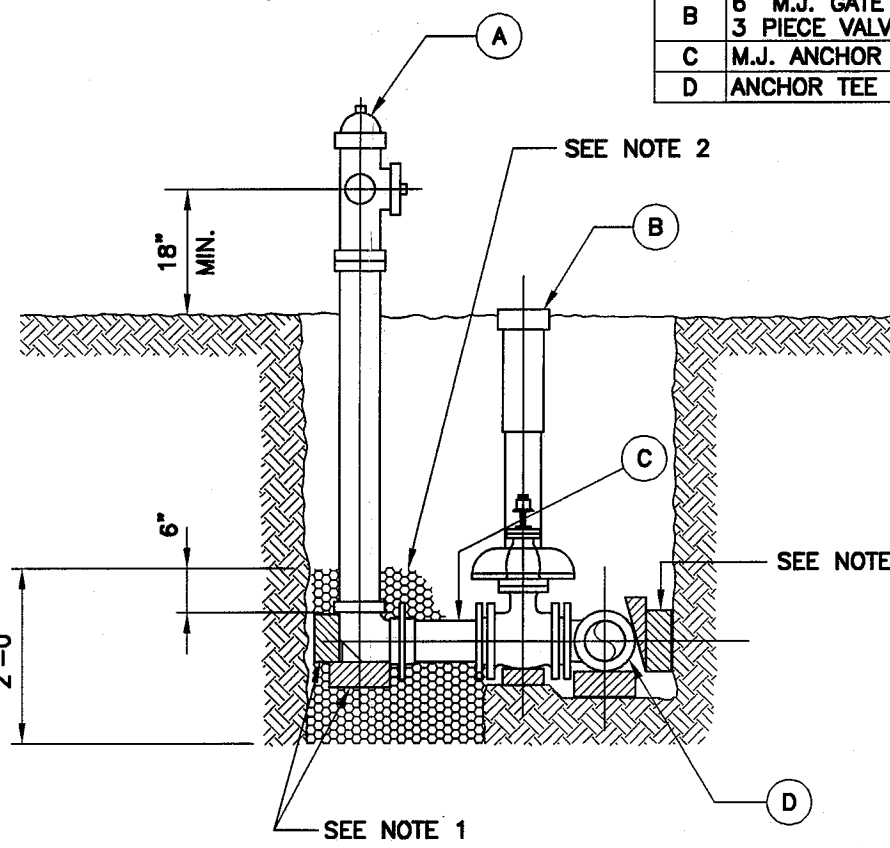
WATER LINE NOTES (Typical Unless Noted)

- THE CONTRACTOR SHALL VISIT THE SITE TO PERSONALLY ASCERTAIN THE NATURE OF THE WORK INVOLVED AND THOROUGHLY BECOME FAMILIAR WITH THE SITE PRIOR TO THE SUBMISSION OF HIS OR HER BID.
- THE CONTRACTOR SHALL CAREFULLY LAYOUT THE WATERLINE AND ALL RELATED FACILITIES TO ENSURE THAT THEY ARE LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY AND/OR ACQUIRED EASEMENTS AS INDICATED.
- THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO ENSURE SAFETY OF THE PUBLIC ON AND SURROUNDING THE SITE DURING CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR RESTORING THE SITE (YARDS, DITCHES, DRIVEWAYS, ETC.) TO ITS ORIGINAL OR BETTER CONDITION UPON COMPLETION OF THE WATER LINE INSTALLATION.
- THE LOCATION OF EXISTING UTILITIES AND STRUCTURES, BOTH ABOVE GROUND AND UNDERGROUND ARE SHOWN ON PLANS FROM DATA AVAILABLE AT THE TIME OF THE SURVEY AND ARE NOT NECESSARILY COMPLETE AND/OR CORRECT. THE EXACT LOCATION AND PROTECTION OF EXISTING UTILITIES AND STRUCTURES IS THE RESPONSIBILITY OF THE CONTRACTOR. DURING CONSTRUCTION, THE CONTRACTOR SHALL USE DUE DILIGENCE IN PROTECTING FROM DAMAGE ALL EXISTING UTILITIES AND STRUCTURES WHETHER SHOWN ON PLANS OR NOT. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR RESTORATION OF SAME IN ACCORDANCE WITH THE DIRECTIONS OF THE OWNER AND OR ANY CONSULTING DAMAGE. THE CONTRACTOR SHALL CONTACT OHIO UTILITIES PROTECTION SERVICE, AT 1-800-362-2764, TWO WORKING DAYS PRIOR TO START OF CONSTRUCTION AS REQUIRED BY OHIO LAW.
- A TYPE 1 TRENCH SHALL BE USED AND BACKFILLED WITH EXCAVATED MATERIAL PROVIDED THAT SAID MATERIAL CONSISTS OF LOAM, SAND, GRAVEL, OR OTHER SUITABLE MATERIAL. BACKFILLING FOR ROAD AND DRIVEWAY CUTS SHALL BE AS SPECIFIED BY THE LOCAL JURISDICTION OR O.D.O.T. IF CONSTRUCTION IS WITHIN THE STATE RIGHT OF WAY.
- THE WATERLINE SHALL BE INSTALLED SO THAT 4'-0" OF MINIMUM COVER FROM EXISTING/PROPOSED GRADE TO TOP OF THE WATERLINE IS MAINTAINED UNLESS OTHERWISE NOTED.
- WATER LINE MATERIALS AND INSTALLATION PROCEDURES SHALL MEET OR EXCEED ALL APPLICABLE A.W.W.A. STANDARDS INCLUDING BUT NOT LIMITED TO C600 AND C651.
- THE CONTRACTOR MAY DEFLECT THE WATERLINE AS NEEDED TO MAINTAIN MINIMUM HORIZONTAL AND VERTICAL SEPARATION DISTANCES.
- MEG-A-LUG RETAINERS REQUIRED AT ALL FITTINGS.
- A MINIMUM 4'-0" HORIZONTAL SEPARATION MUST BE MAINTAINED BETWEEN EXISTING STORM SEWERS AND THE WATERLINE.
- A MINIMUM 12" VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN EXISTING STORM SEWERS AND WATERLINE, OUT TO OUT.
- A MINIMUM 10'-0" HORIZONTAL SEPARATION MUST BE MAINTAINED BETWEEN EXISTING SANITARY SEWERS AND WATERLINE, OUT TO OUT.
- A MINIMUM 18" VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN EXISTING SANITARY SEWERS AND WATERLINE, OUT TO OUT.
- EXISTING/MARKED PROPERTY PINS ARE NOT TO BE DISTURBED.
- ALL ASPHALT AND CONCRETE DRIVES ARE TO BE SAW CUT FOR WATERLINE INSTALLATION.
- ALL MAIL BOXES, TRAFFIC CONTROL SIGNS AND ADVERTISING SIGNS ENCOUNTERED DURING CONSTRUCTION SHALL BE REPLACED IMMEDIATELY AFTER THE WATER MAIN HAS BEEN INSTALLED AND BACKFILLED.

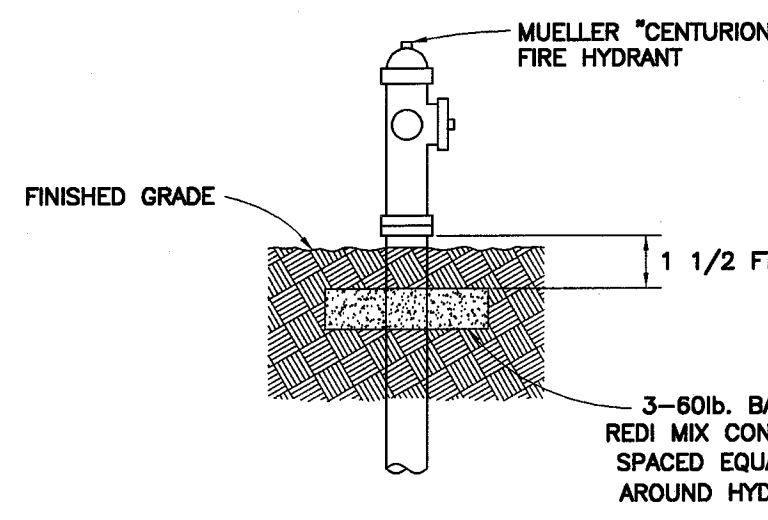
NOTES

- SOLID CONCRETE BLOCK TO BE USED UNDER ALL TEES, VALVES AND BEHIND AND UNDER HYDRANT ELBOW.
- CRUSHED STONE FILL AROUND HYDRANT DRAIN AND TO A DEPTH OF 2'-0".
- SOLID CONCRETE BLOCK WITH OAK WEDGES. (BRACED AGAINST UNDISTURBED SOIL)

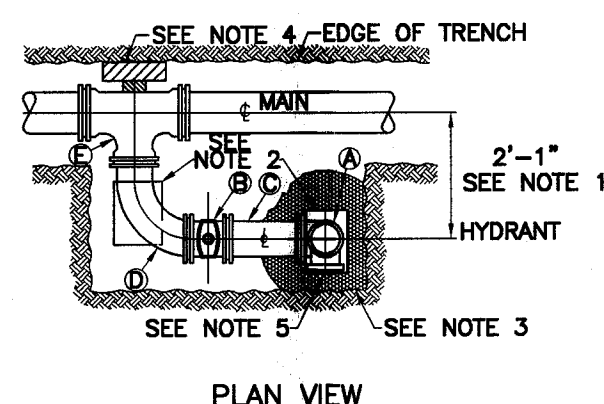
ITEM	DESCRIPTION
A	HYDRANT ASSEMBLY AS APPROVED BY CONSUMERS OHIO WATER CO.
B	6" M.J. GATE VALVE
C	3" PIECE VALVE BOX
D	M.J. ANCHOR COUPLING X 12"
E	ANCHOR TEE (CLOW F-1217)



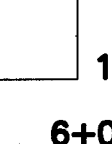
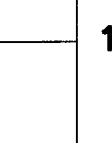
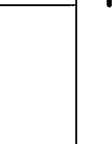
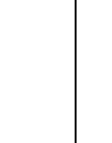
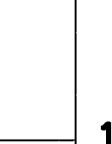
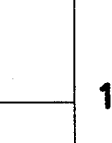
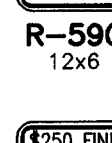
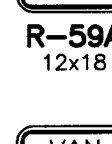
TYPICAL FIRE HYDRANT ASSEMBLY TYPE IIA



TYPICAL FIRE HYDRANT COLLAR



TYPICAL FIRE HYDRANT ASSEMBLY TYPE III



ALL SIGNS SHALL COMPLY WITH OHIO DEPARTMENT OF TRANSPORTATION, "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", LOCAL CODES AND AS SPECIFIED. MOUNT SIGN IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

MOUNT SIGN HERE

1/2" CHANNEL POST (2 LBS./FT)

WHEN SIGN IS IN PAVED AREAS, USE 4" PIPE BOLLARD FILLED W/ CONCRETE AND PAINTED YELLOW

SLOPE TOP OF CONCRETE

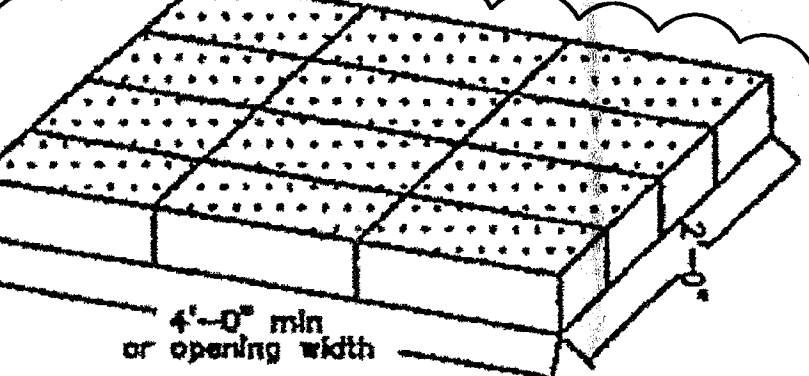
PC CONCRETE

1'-0"

3'-6"

1'-0"

STANDARD SIGN BASE



PAVERS TO MEET ASTM C 802 CLASS SX OR APPROVED EQUAL

1110 DETAIL-B TRUNCATED DOME PAVER

NOTES

SURFACE TEXTURE: TEXTURE OF CONCRETE SURFACE SHALL BE OBTAINED BY COARSE BROOMING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION, OR WITH A MAXIMUM 1/8" THICK BED OF LATEX MODIFIED CEMENT MORTAR MORTAR JOINTS TO WIDTH NOT GREATER THAN 1/2" AND NOT LESS THAN 1/4". PAVERS SHALL NOT BE DIRECTLY TOUCHING EACH OTHER UNLESS THEY HAVE SPACING BARS.

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 802 CLASS SX, TYPE 1, OR C 838, OR C 1272 TYPE R.

ACCEPTABLE MANUFACTURERS AND PRODUCTS ARE AS FOLLOWS:

- WHITACRE FIREPROOFING COMPANY
1400 SOUTH MARION AVENUE
ALLIANCE, OHIO 44801
1-800-WG PAPER
ADA PAVES, 4"x8"x2-1/4" CLEAR RED, RUSTIC, #30
- HANOVER ARCHITECTURE PRODUCTS
240 BENDER ROAD
HANOVER, PA 17331
(717) 837-0500
DETECTABLE WARNING PAVES, 12"x12"x2" OR 24"x24"x2", RED OR QUARRY RED
- ENDICOTT CLAY PRODUCTS
P.O. BOX 17
FAIRBURY, NE 68352
(402) 729-5804
HANDCAP DETECTABLE WARNING PAVES, 4"x8"x2-1/4", RED BLEND

PAVER 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 1/8" THICK BED OF LATEX MODIFIED CEMENT MORTAR MORTAR JOINTS TO WIDTH NOT GREATER THAN 1/2" AND NOT LESS THAN 1/4". PAVERS SHALL NOT BE DIRECTLY TOUCHING EACH OTHER UNLESS THEY HAVE SPACING BARS.

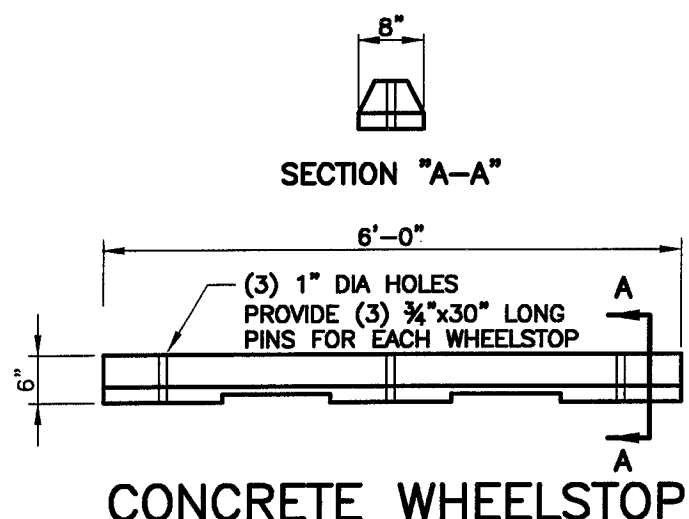
MORTARED JOINTS ARE TO BE FLUSH WITH TOP STRUCTURE AND STRUCK 50 AS TO GIVE A SMOOTH SURFACE. PAVERS SHALL BE LAID SUCH THAT JOINTS ARE LEVEL WITH ADJOINING JOINTS SO AS TO PROVIDE A SMOOTH TRANSITION FROM BRICK TO BRICK AND BRICK TO CONCRETE SURFACE.

THE SURFACE OF ANY TWO ADJACENT UNITS SHOULD NOT DIFFER BY MORE THAN 1/8" IN HEIGHT. BRICKS SHALL BE PLACED IN A RUNNING BAND PATTERN. FACE OF ALL BRICK SHALL BE CLEAN OF CEMENT AND PROTECTED SO AS TO AVOID CHIPPING DURING CONSTRUCTION.

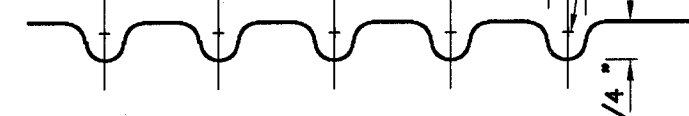
EXPANSION JOINTS: SHALL BE PROVIDED IN THE CURB RAMP AS EXTENSIONS OF WORK JOINTS AND CONFORM WITH ITEM 808.03 REQUIREMENTS FOR A NEW CONCRETE WALK. A 1/2" ITEM 705.03 EXPANSION JOINT FILLER SHALL BE PROVIDED ALONG THE EDGE OF RAMP BUILT IN EXISTING CONCRETE WALK. LINES ON SHOWN THIS DRAWING INDICATES THE RAMP EDGE AND SLOPES CHANGES AND ARE NOT NECESSARILY JOINTS LINES.

RELIEF JOINTS: MUST BE PROVIDED AT ALL POINTS OF CONTINUOUS SLOPE CHANGES IN CURB TYPE A AND TYPE C.

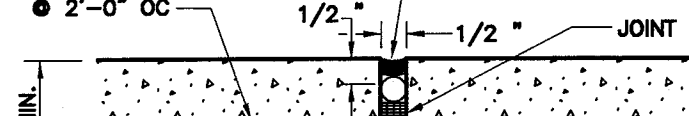
PAYMENT: ITEM 808, CURB RAMP, EACH SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING ALL MATERIALS (INCLUDING TRUNCATED DOMES), GRADING, FORMING AND FINISHING OF THE CURB AND WALK OF THE CURB RAMP AND REMOVAL OF ANY EXISTING MATERIAL, TO PERFORM SUCH WORK.



CONCRETE WHEELSTOP



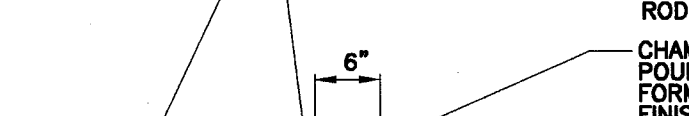
GROOVING DETAIL @ RAMP



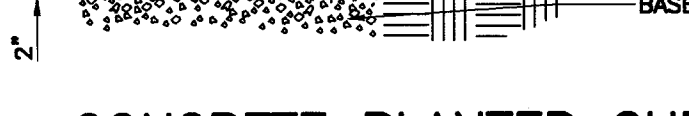
SIDEWALK EXPANSION JOINT



CONCRETE PLANTER CURB



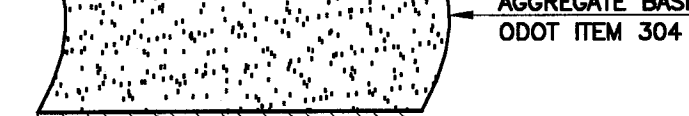
HEAVY DUTY/STANDARD DUTY ASPHALT PAVEMENT DETAIL



BOLLARD DETAIL



PARALLEL CURB RAMP DETAIL (SINGLE)



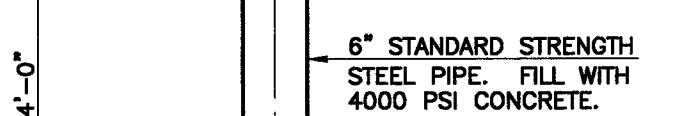
PARALLEL CURB RAMP DETAIL (DOUBLE)



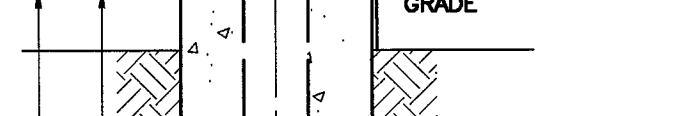
ONE-WAY CURB RAMP DETAIL



CONCRETE CURB AND WALK



ROLLED CURB & WALK



FLUSH CURB & WALK



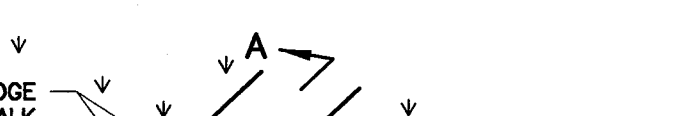
CONCRETE CURB & GUTTER



CONCRETE CURB & GUTTER



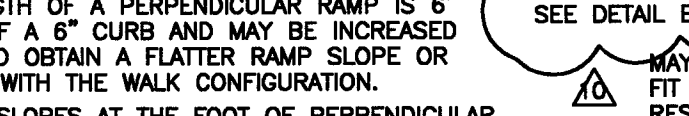
CONCRETE CURB & GUTTER



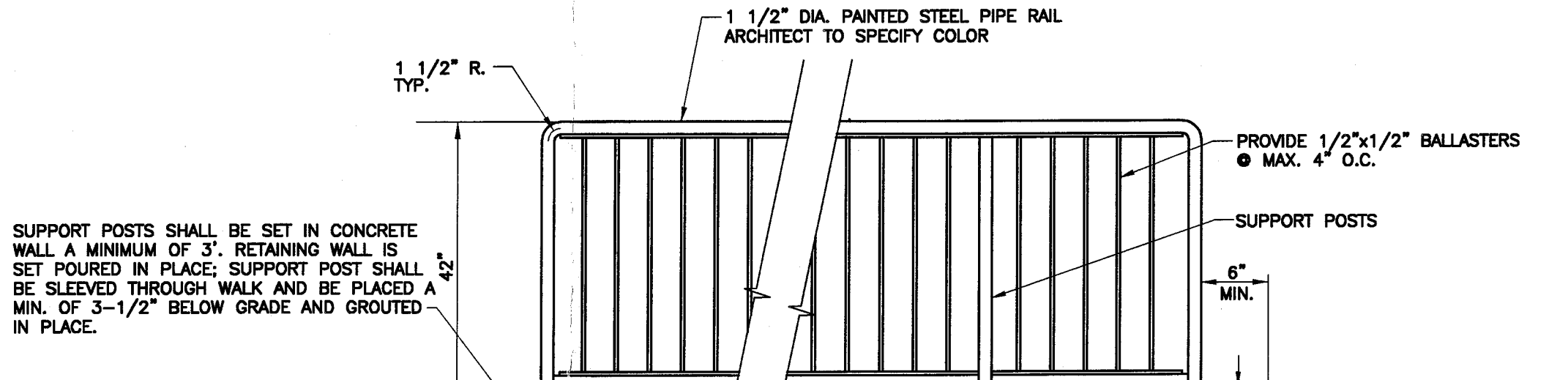
CONCRETE CURB & GUTTER



CONCRETE CURB & GUTTER



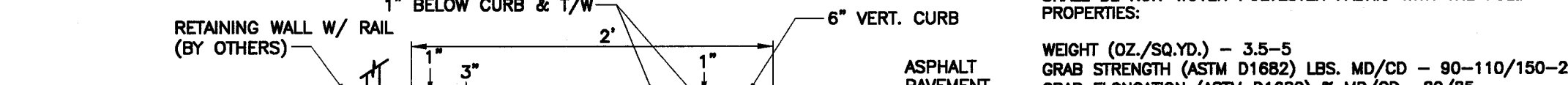
CONCRETE CURB & GUTTER



RAIL DETAIL @ OUTLET 'A' RETAINING WALL



CONCRETE CURB AND WALK



CONCRETE CURB AND WALK



CONCRETE CURB AND WALK



CONCRETE CURB AND WALK



CONCRETE CURB AND WALK



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CONCRETE CURB AND WALK



CONCRETE CURB AND WALK



CONCRETE CURB AND WALK



CONCRETE CURB AND WALK



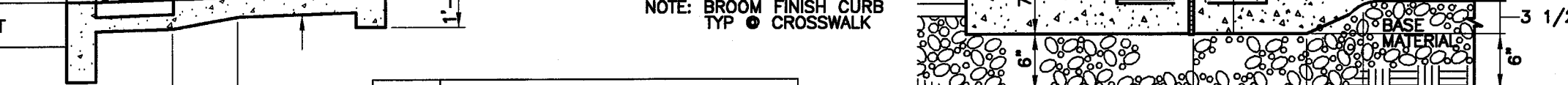
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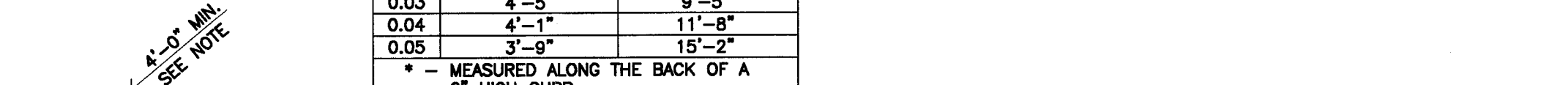
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CONCRETE CURB AND WALK



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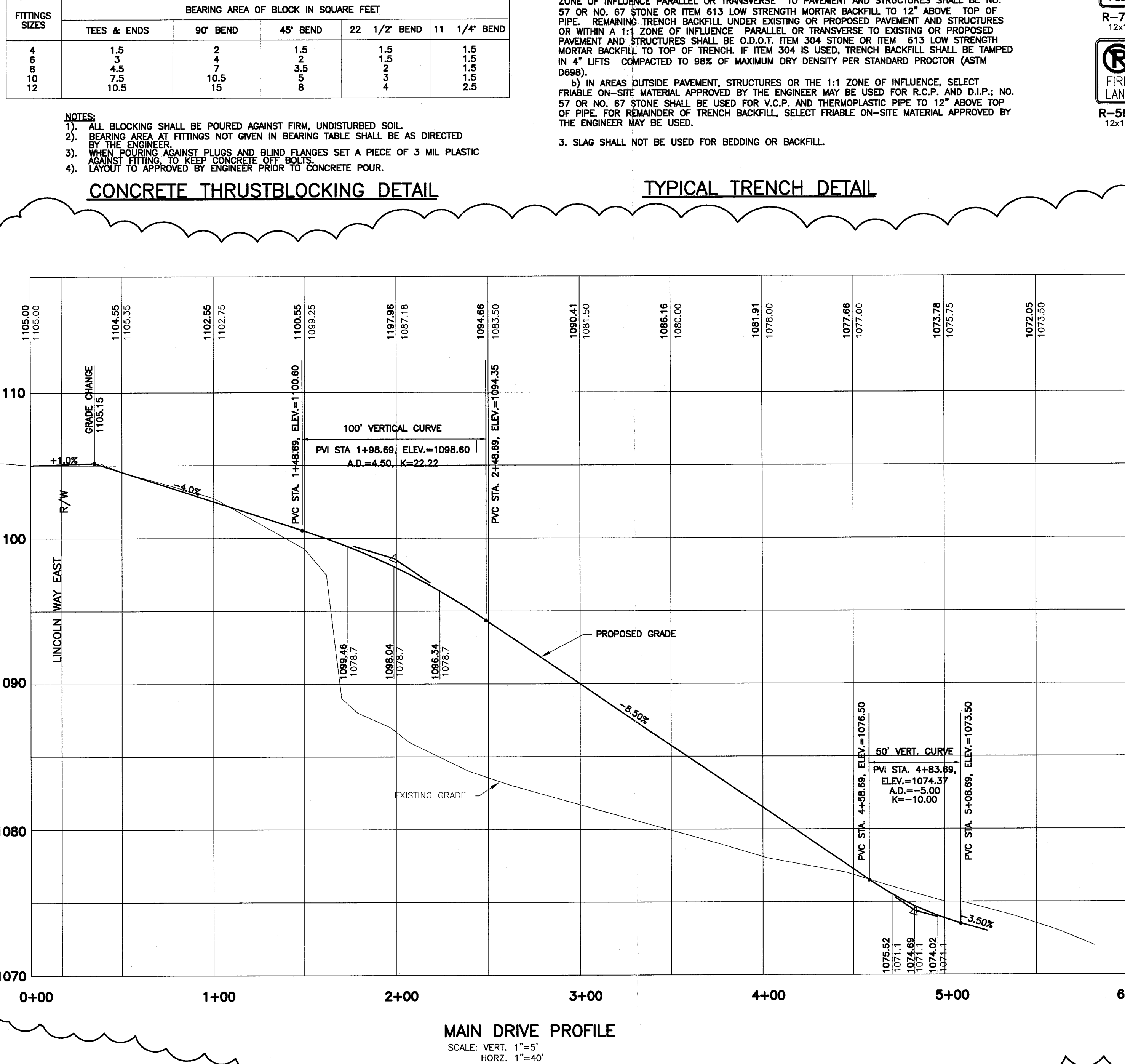
CONCRETE CURB AND WALK



CONCRETE CURB AND WALK



CONCRETE CURB AND WALK



MAIN DRIVE PROFILE

AMCON
DESIGN AND CONSTRUCTION CO., LLC
3030 West Broad Street
Columbus, Ohio 43228
(614) 291-1100
www.amconco.com

OWNER / DEVELOPER:

THORSON BAKER & Associates, Inc.
Consulting Engineers
3030 West Broad Street
Columbus, Ohio 43228
(614) 291-1100

CONTRACTOR:

MEADOWS PLAZA
REDEVELOPMENT
MASSILLON, OHIO

ISSUED FOR CITY APPROVAL 08/25/05

ENTRANCE DRIVE & OUTLET 'A' 07/29/05

TARGET COMMENTS 01/17/05

ISSUED FOR CONSTRUCTION 08/09/04

ISSUED FOR OWNER REVIEW 07/30/04

ISSUED FOR CITY REVIEW 07/06/04

ISSUED FOR REVIEW 06/25/04

SHEET TITLE

MAIN DRIVE PROFILE AND DETAILS

DATE

8/21/2004

PROJECT NUMBER

C13

GENERAL NOTES

1. THE MUNICIPAL REQUIREMENTS, TOGETHER WITH THE JANUARY 1, 2002 EDITION OF THE STATE OF OHIO, DEPT. OF TRANSPORTATION (ODOT) UNIFORMS AND MATERIAL SPECIFICATIONS (CMS) SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THIS PLAN, UNLESS OTHERWISE NOTED. IF THERE ARE DISCREPANCIES, THE MUNICIPAL REQUIREMENTS SHALL GOVERN.
2. EXISTING CONDITIONS: THE EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN TAKEN FROM AN ALTA SURVEY, PREPARED BY COOPER & ASSOC., LLP., INC., THORSON BAKER & ASSOCIATES, INC. DOES NOT WARRANT THAT THE INFORMATION SHOWN HEREON IS EITHER ACCURATE OR COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS AT THE PROJECT SITE.
3. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.
4. THE MUNICIPAL AUTHORITY AND THORSON BAKER & ASSOCIATES, INC. SHALL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCE OF CONSTRUCTION. THE MUNICIPAL AUTHORITY AND THORSON BAKER & ASSOCIATES, INC. WILL NOT BE RESPONSIBLE FOR SAFETY ON THE JOB SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
5. ANY MODIFICATION TO THE SPECIFICATIONS OR CHANGES TO THE WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL FROM THE MUNICIPAL ENGINEER.
6. THE CONTRACTOR SHALL NOTIFY THE MUNICIPAL AUTHORITIES AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING THE WORK.
7. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION.
8. ANY SURVEY MONUMENTS OR PERMANENT MARKERS DISTURBED DURING CONSTRUCTION SHALL BE RESET BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
9. ALL SIGNS, LANDSCAPING, STRUCTURES, OR OTHER APPURTENANCES DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE MUNICIPAL AUTHORITY OR THE OWNER AT NO ADDITIONAL COST.
10. PERMITS TO CONSTRUCT IN THE RIGHT-OF-WAY OF EXISTING STREETS MUST BE OBTAINED BEFORE COMMENCING WORK.

GENERAL NOTES (ROADWAY & PAVEMENT)

1. WHEN OPEN-CUTTING OF EXISTING PAVEMENT IS PERMITTED, CONTROLLED DENSITY BACKFILL MAY BE USED IN PLACE OF COMPACTED GRANULAR BACKFILL. ASPHALT SURFACES SHALL BE HEAT WELDED.
2. WHERE IT IS NECESSARY TO DISTURB EXISTING PAVEMENTS, THE PAVEMENT SHALL BE SAW CUT IN NEAT, STRAIGHT LINES. THE DEPTH OF THE SAWCUT SHALL BE AT LEAST 2 INCHES.
3. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN THE VICINITY OF EXISTING TREES, TAKING ALL PRACTICAL MEASURES TO PROTECT AND PRESERVE THEM.
4. CLEARING AND GRUBBING: TREES AND STUMPS WITHIN THE WORK AREA SHALL BE REMOVED, WHETHER OR NOT THEY ARE CURRENTLY MARKED OR NOTED ON THE PLANS. CLEARING AND GRUBBING OPERATIONS SHALL CONFORM TO ITEM 201 OF THE CURRENT OHIO DEPARTMENT OF TRANSPORTATION "CONSTRUCTION AND MATERIAL SPECIFICATIONS" MANUAL.
5. ALL EARTHWORK CONSTRUCTION METHODS AND MATERIALS FOR EXCAVATION, EMBANKMENT, SUBGRADE COMPACTION, AND PROOF SPECIFICATIONS: MANUAL UNDER ITEMS 203 AND 204.
6. ALL PAVING OPERATIONS AND MATERIALS SHALL CONFORM TO AND MEET THE REQUIREMENTS AS OUTLINED WITHIN THE CURRENT OHIO DEPARTMENT OF TRANSPORTATION "CONSTRUCTION AND MATERIAL SPECIFICATIONS" MANUAL.
7. REMOVAL OF STRUCTURES AND OBSTRUCTIONS: BUILDINGS, FOUNDATIONS, STRUCTURES, ASPHALT AND CONCRETE PAVEMENT, AND UTILITIES ABOVE AND BELOW GROUND SHALL BE REMOVED AND DISPOSED OF OFF SITE WITHIN STANDARDS AS OUTLINED WITHIN THE CURRENT OHIO DEPARTMENT OF TRANSPORTATION "CONSTRUCTION AND MATERIAL SPECIFICATIONS" MANUAL UNDER ITEM 202.
8. WALK REPLACEMENT: APPROXIMATE LOCATIONS FOR THE REQUIRED REMOVAL/REPLACEMENT OF EXISTING WALK ARE AS SHOWN ON THE PLAN. WALK REMOVAL/REPLACEMENT LIMITS SHALL TYPICALLY EXTEND TO THE NEAREST EXISTING WALK JOINT. THE EXACT SHALL BE REMOVED IN A MANNER THAT WILL NOT DISTURB, DAMAGE OR UNDERMINE ADJACENT WALK, CURB, DRIVE OR DRIVE APRONS INTENDED TO REMAIN. ANY ADJACENT FACILITIES DAMAGED AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE, AS DETERMINED BY THE ENGINEER, AND WHICH ARE NOT OTHERWISE DESIGNATED FOR REMOVAL/REPLACEMENT, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. REPAIRS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS CONTAINED HEREON. CURB RAMPS AS SHOWN IN THESE PLANS ARE SUBJECT TO ADJUSTMENT TO MINIMIZE CONFLICTS WITH EXISTING CATCH BASINS, MANHOLES, UTILITY POLES, HYDRANTS OR OTHER SUCH APPURTENANCES.
9. CONCRETE WALKS: ALL CONCRETE WALK SHALL BE A MINIMUM OF 4" THICK AND HAVE A 2" COMPACTED SCREENINGS BED WHICH MEETS THE REQUIREMENTS OF ODOT ITEM 703.10 EXCEPT THAT THE MINIMUM TOTAL PERCENT PASSING THE NO. 100 SIEVE SHALL BE FIVE (5) PERCENT. WHEN THE WALK CROSSES A FLEXIBLE DRIVEWAY, THE THICKNESS SHALL BE INCREASED TO SIX (6) INCHES. TRANSVERSE EXPANSION JOINT FILLER (ODOT ITEM 705.03) SHALL BE CONSTRUCTED AT INTERVALS OF NOT MORE THAN 30 FEET. THE FILLER SHALL BE PLACED AT THE TRANSVERSE DIVISION JOINTS FOR THE FULL DEPTH/WIDTH OF THE CONCRETE WALK AND SHALL BE TRULY NORMAL TO GRADE. THE FINAL SURFACE SHALL BE TEXTURED BY USE OF AN ACCEPTED BROOM SO AS TO PRODUCE A UNIFORM, GRITTY, TRANSVERSE TEXTURE.

GENERAL NOTES (TRAFFIC CONTROL)

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (PART 7 CONSTRUCTION AND MAINTENANCE OPERATIONS). COPIES ARE AVAILABLE FROM THE ODOT, BUREAU OF TRAFFIC, 25 SOUTH FRONT STREET, COLUMBUS, OHIO 43215.
2. STEADY-BURNING, TYPE "C", LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS AND SIMILAR TRAFFIC DEVICES IN USE AT NIGHT. CONES ARE NOT PERMITTED TO BE USED FOR TRAFFIC CONTROL.
3. ACCESS TO ALL ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING MAJOR SERVICE IN THE CONSTRUCTION AREA.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADEQUATELY BARRICADE THE STREET IN THE VICINITY OF EXPANSION JOINTS UNTIL SUCH TIME AS THE STREET IS OPEN TO TRAFFIC.

GENERAL NOTES (UTILITIES)

1. EXISTING UTILITIES SHOWN ARE FROM BEST AVAILABLE RECORDS AND FIELD INVESTIGATION, AND ARE NOT NECESSARILY COMPLETE OR EXACT. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, LOCATION, AND RESTORATION ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL LOCATIONS. MAKE SUCH ADJUSTMENTS IN ELEVATIONS AS ARE REQUIRED TO PROVIDE SUFFICIENT CLEARANCE BETWEEN THE EXISTING AND PROPOSED UTILITIES. CALL THE ODOT UTILITIES PROTECTION SERVICE (800) 362-2764 AT LEAST THREE (3) WORKING DAYS PRIOR TO COMMENCING WORK.
2. WHEN UNKNOWN OR INCOMPLETELY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE MUNICIPAL ENGINEER.
3. FIELD TILE BROKEN DURING EXCAVATION SHALL BE REPLACED TO ITS ORIGINAL CONDITION OR CONNECTED TO THE STORM DRAIN SYSTEM AS DIRECTED BY THE MUNICIPAL AUTHORITY.
4. ALL TRENCHES SHALL BE BACKFILLED OR SECURELY PLAYED DURING NONWORKING HOURS.
5. AT UTILITY CROSSINGS WHERE THE EXISTING UTILITY IS EXPOSED IN THE TRENCH, BACKFILL SHALL CONSIST OF COMPACTED GRANULAR MATERIAL IN ACCORDANCE WITH CMS ITEM 603 BETWEEN THE DEEPER AND SHALLOWER PIPE. WHERE PROPOSED UTILITIES CROSS PROPOSED OR EXISTING PAVEMENT AREAS, BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL IN ACCORDANCE WITH CMS ITEM 603 EXTENDING AT LEAST 3 FEET BEYOND THE BACK OF CURB OR EDGE OF PAVEMENT.

GENERAL NOTES (SEWERS)

1. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
2. ALL SEWERS CONSTRUCTED UNDER THIS PLAN SHALL MEET THE REQUIREMENTS OF CMS ITEM 603.
3. THE MINIMUM REQUIREMENTS FOR SANITARY SEWERS SHALL BE PVC PLASTIC SEWER PIPE, ASTM D-3034, SDR 35. SANITARY SEWER LATERALS SHALL BE LAID AT A MINIMUM GRADE OF 1.0% WITH PREMIUM JOINTS.
4. THE MINIMUM REQUIREMENTS FOR STORM DRAIN PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) PER ODOT ITEM 706.02 OR HDPE PER ODOT ITEM 707.33, AS SPECIFIED.
5. THE MINIMUM REQUIREMENTS FOR CORRUGATED STEEL STORM DRAINS SHALL BE 5" x 1" CORRUGATIONS, ALUMINIZED TYPE II, WITH MATCHING ANNUAL BANDS, NO.16 GAUGE STEEL. ALL CMP MATERIALS SHALL MEET MANUFACTURER'S SPECIFICATIONS INCLUDING MANHOLE RISERS.
6. CURB INLETS, MANHOLES, AND CATCH BASINS SHALL BE CHanneled AS DIRECTED.

GENERAL NOTES (WATER)

1. ALL WATER SERVICE MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS OF THE WATER AUTHORITY. ALL DUCTILE IRON PIPE SHALL BE MIN. CLASS 52. ALL SERVICE LATERALS SHALL BE TYPE "K" COPPER.
2. WATER SERVICE SHALL BE LAID WITH A MINIMUM OF 8" x 10" FROM THEN TOP OF THE WATER MAIN.
3. MINIMUM CLEARANCE BETWEEN SANITARY SEWER AND WATER LINES SHALL BE 1'-0" HORIZONTAL OR 1'-6" VERTICAL OUTSIDE OF PIPE.
4. ALL VALVES, HYDRANTS, BACKFLOW PREVENTION, AND OTHER APPURTENANCES SHALL BE IN ACCORDANCE OF THE SPECIFICATIONS OF THE WATER AUTHORITY.
5. THE CONTRACTOR SHALL NOTIFY THE LOCAL WATER AUTHORITY AT LEAST TWO WORKING DAYS BEFORE TAPPING THE EXISTING MAIN.
6. A SEPARATE PERMIT MUST BE OBTAINED FOR EACH WATER SERVICE TAP.

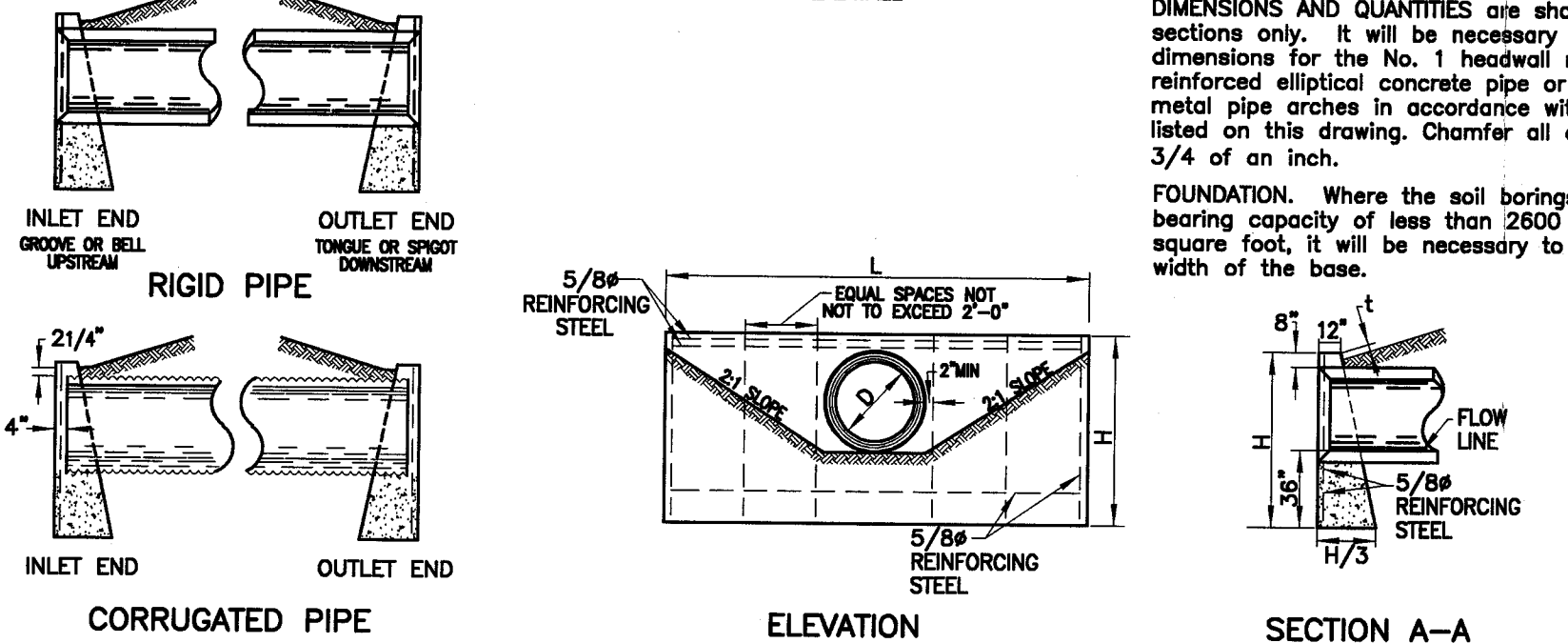
DIMENSIONS			QUANTITIES ONE HEADWALL	
DIAMETER	H	L	CONCRETE CU. YDS.	REINFORCING STEEL LBS.
15"	5'-2"	7'-0"	1.7	41
18"	5'-2"	9'-0"	2.2	47
21"	5'-8"	9'-0"	2.8	62
24"	5'-11"	11'-0"	3.3	69
30"	6'-5"	13'-8"	4.7	92
36"	7'-0"	16'-4"	6.5	105

L CIRCULAR SECTIONS	= 5D + Rt	NOTES	
L ELLIPTICAL OR PIPE-ARCH	= 4R + 4t + 3		
H CIRCULAR SECTIONS	= D + t + 44"		No.
H ELLIPTICAL OR PIPE-ARCH	= R + t + 44"		non-
D= DIAMETER OF PIPE		inch	
R= RISE OF PIPE		CON	
S= SPAN OF PIPE			
T= THICKNESS OF BARREL		REIN	
L= LENGTH OF HEADWALL			
H= HEIGHT OF HEADWALL			

L CIRCULAR SECTIONS = 50 + R
 L ELLIPTICAL OR PIPE-ARCH = 4R + 4t + 43
 L CIRCULAR SECTIONS = 50 + R
 L ELLIPTICAL OR PIPE-ARCH = 4R + 4t + 44
 D = DIAMETER OF PIPE
 t = RISE OF PIPE
 S = SPAN OF PIPE
 L = LENGTH OF HEADWALL
 H = HEIGHT OF HEADWALL

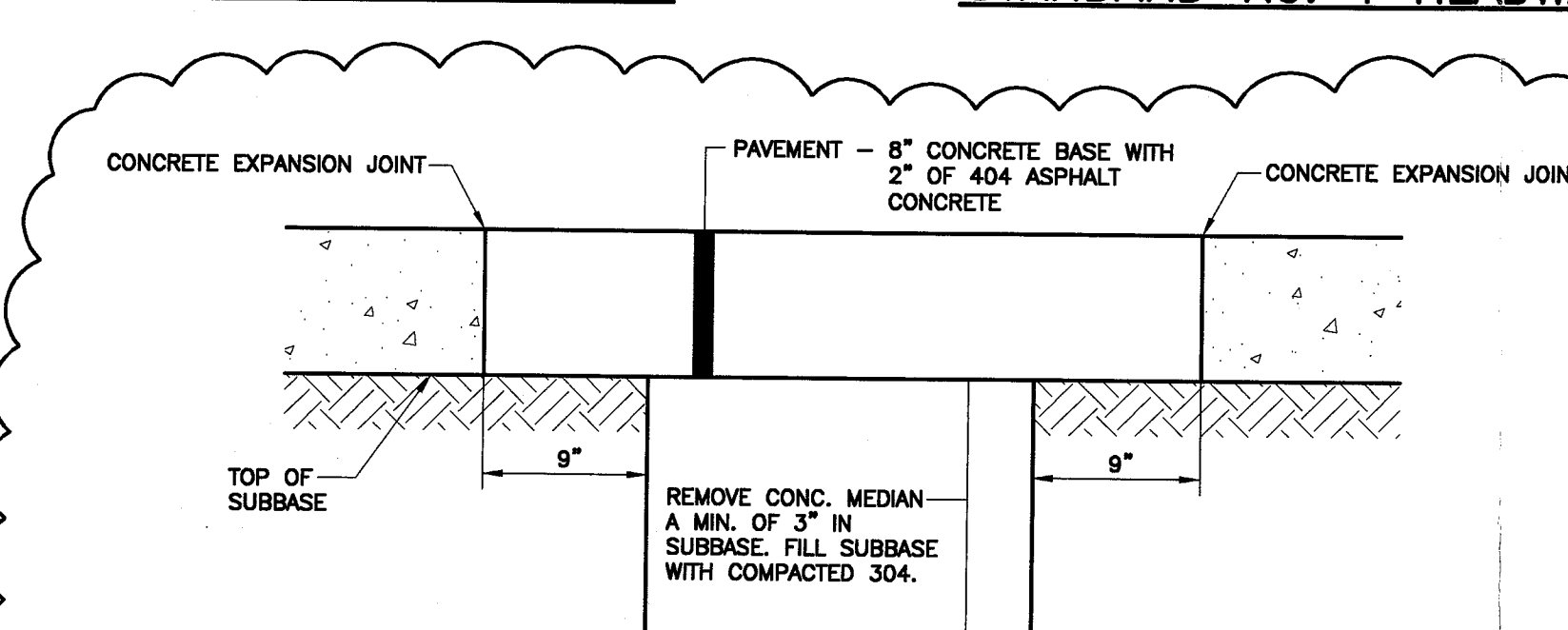
NOTES:
 No. 1 HEADWALL Where required will be provided for nonsewered culverts having a diameter or rise of 36 inches or less.
 CONCRETE shall be Class "C"
 REINFORCING STEEL BARS shall be 5/8 inch round.

FOUNDATION: Where the soil borings indicate a bearing capacity of less than 2800 pounds per square foot, it will be necessary to increase the width of the base.



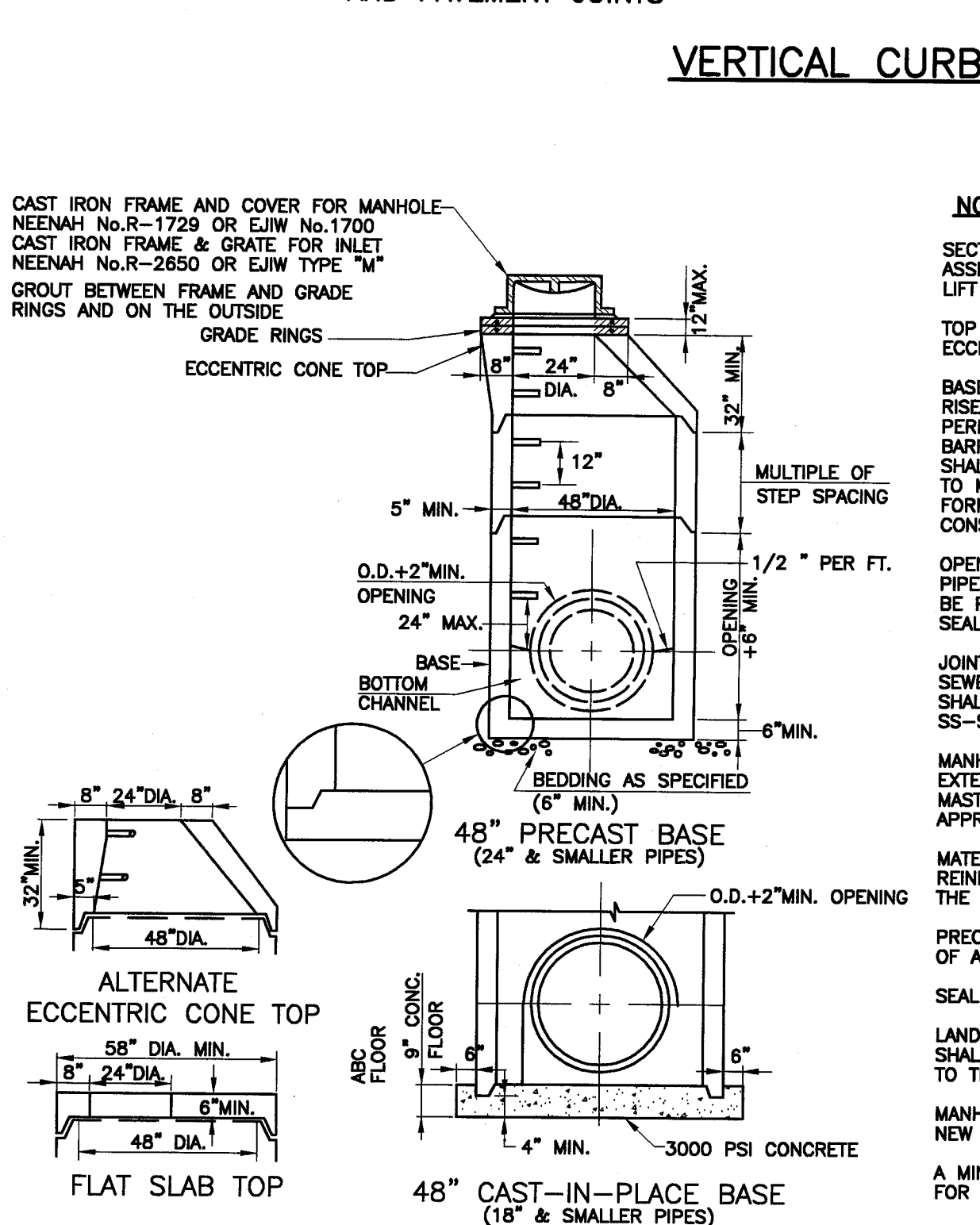
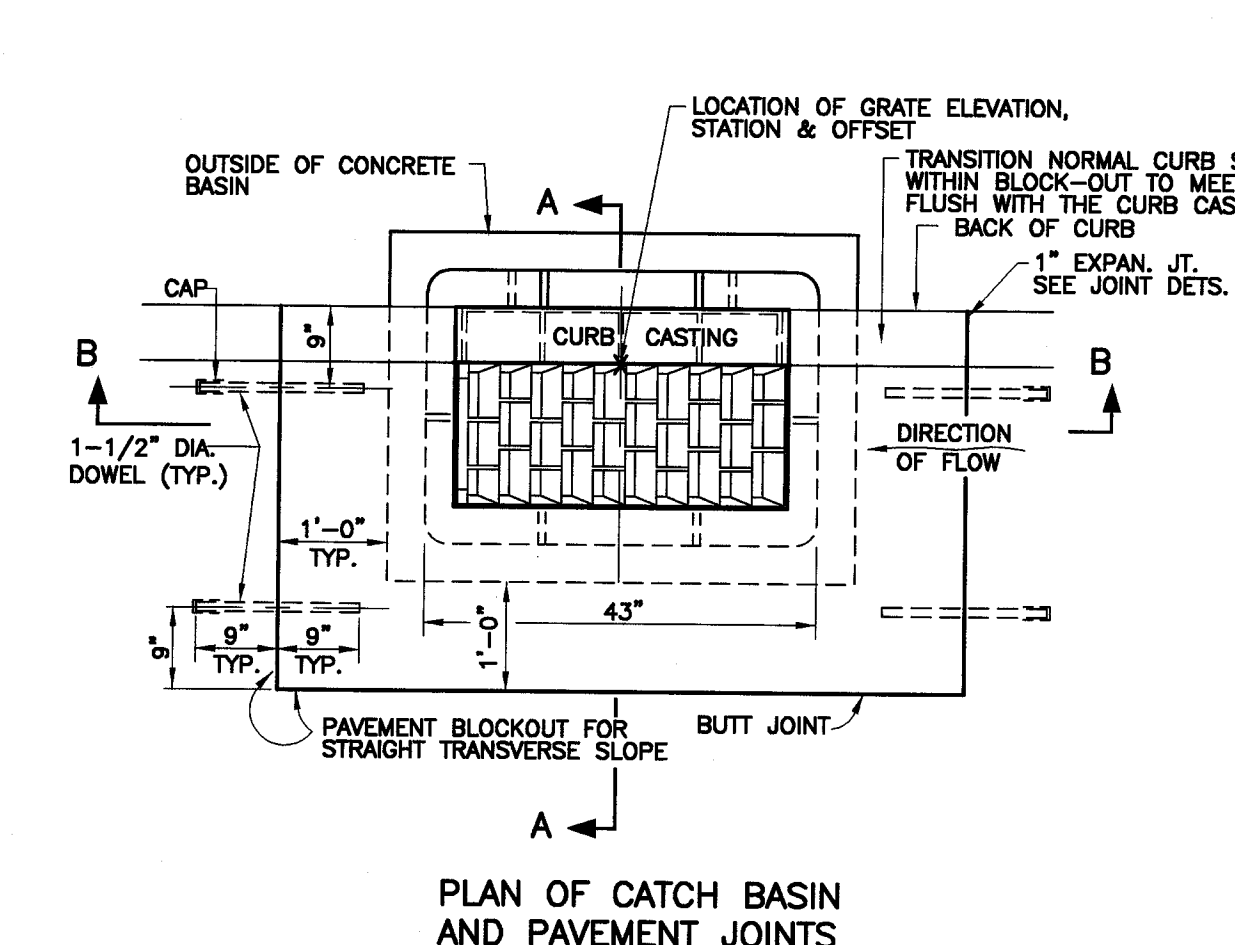
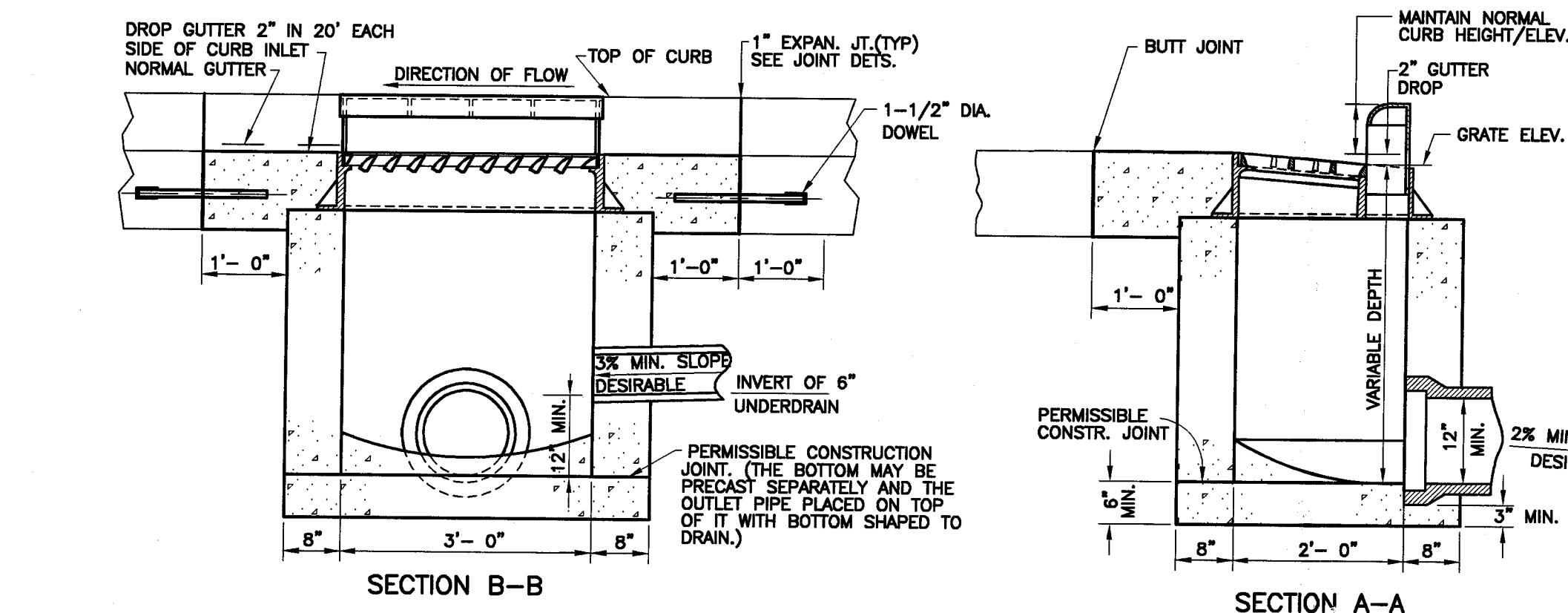
END TREATMENT AT HEADWALL

STANDARD No. 1 HEADWALL

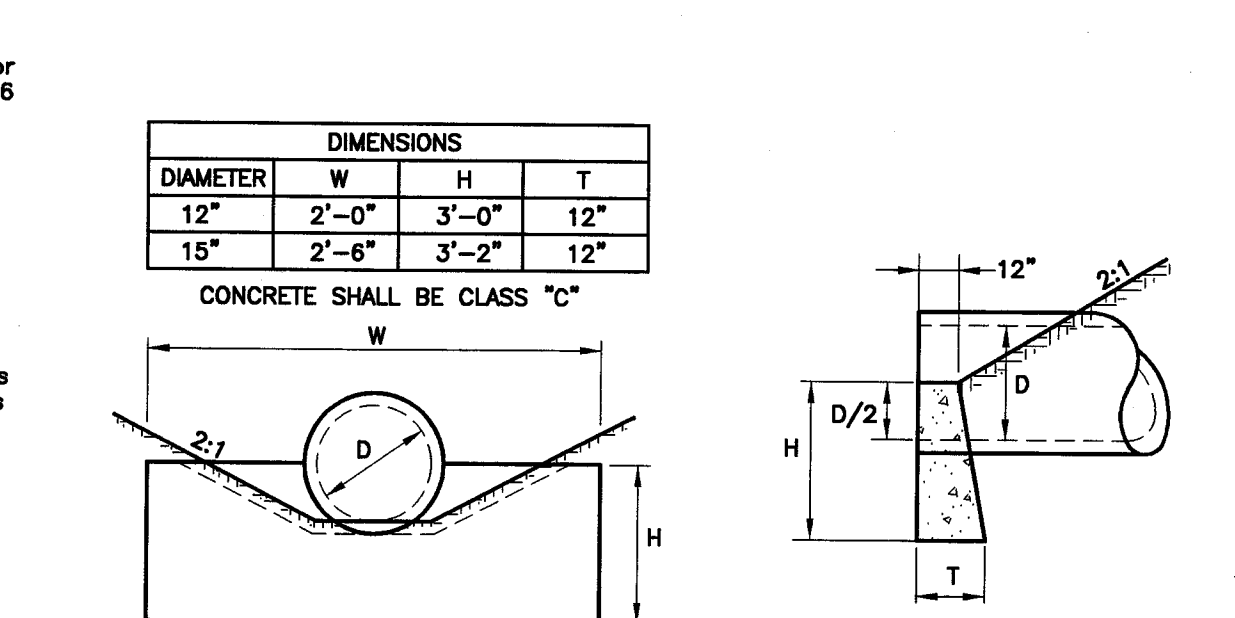


- NOTES:
 1. CONCRETE BASE SHALL BE OF 1:2:4, 6 BAG MIX, PORTLAND CEMENT CONCRETE USING HIGH EARLY STRENGTH CEMENT AND IT MUST BE CURED AT LEAST 48 HOURS.
 2. ALL JOINTS SHALL BE SEALED WITH LIQUID ASPHALT.

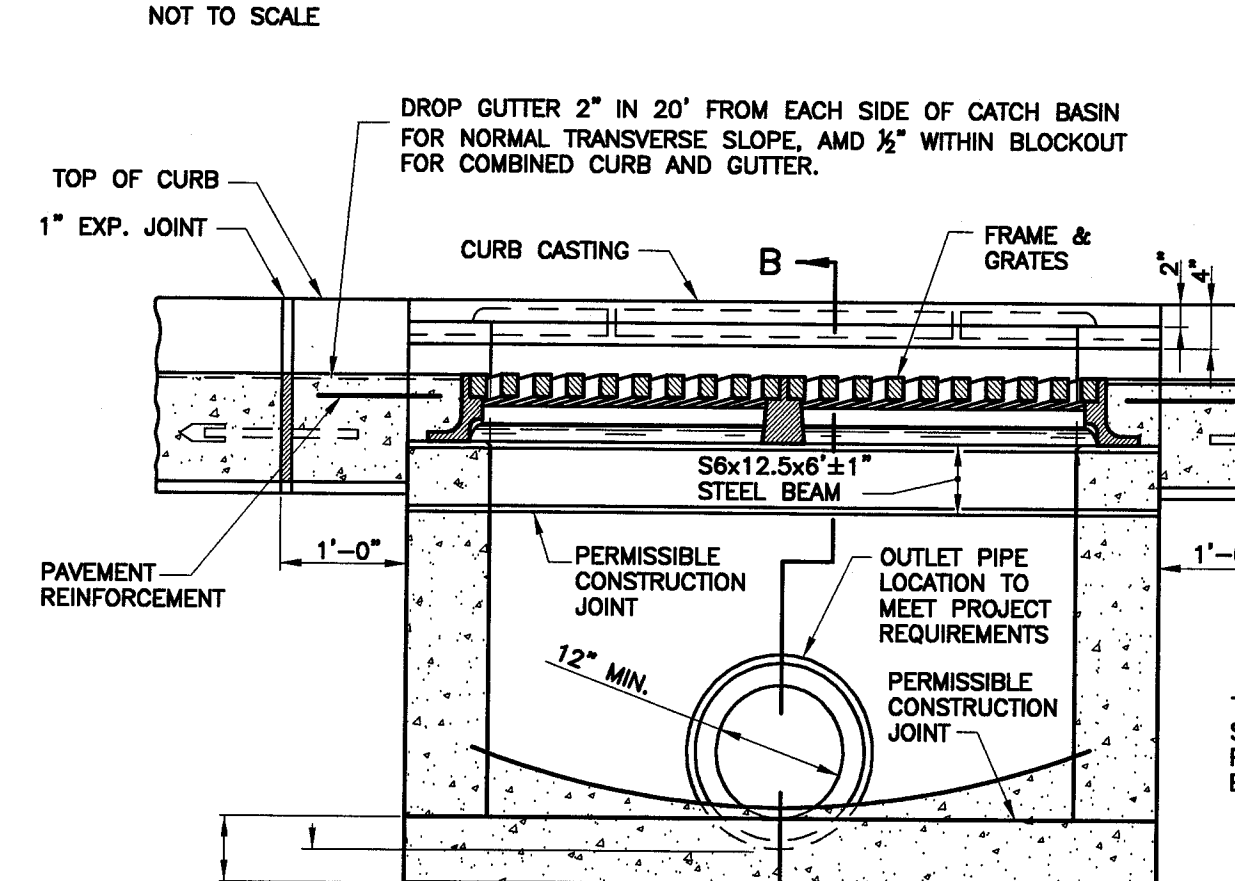
LINCOLN WAY EAST PAVEMENT DETAIL



PRECAST CONCRETE MANHOLE STANDARD



ODOT HEADWALL -- HALF HEIGHT



CURB INLET

(SIM. TO ODOT No. 3)

UNDERDRAIN DETAIL

NOT TO SCALE

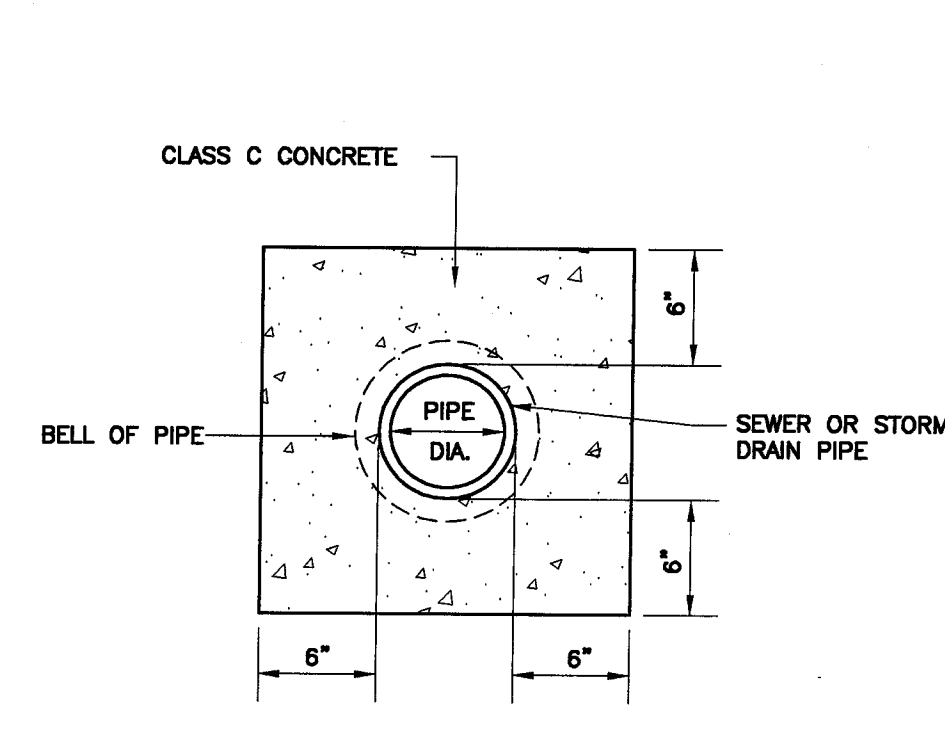
SECTION B-B WITH CURB

(2" DEPRESSION)

SECTION A-A

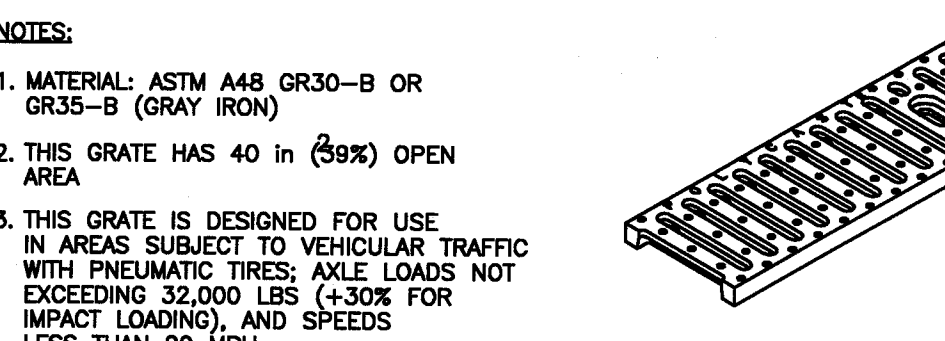
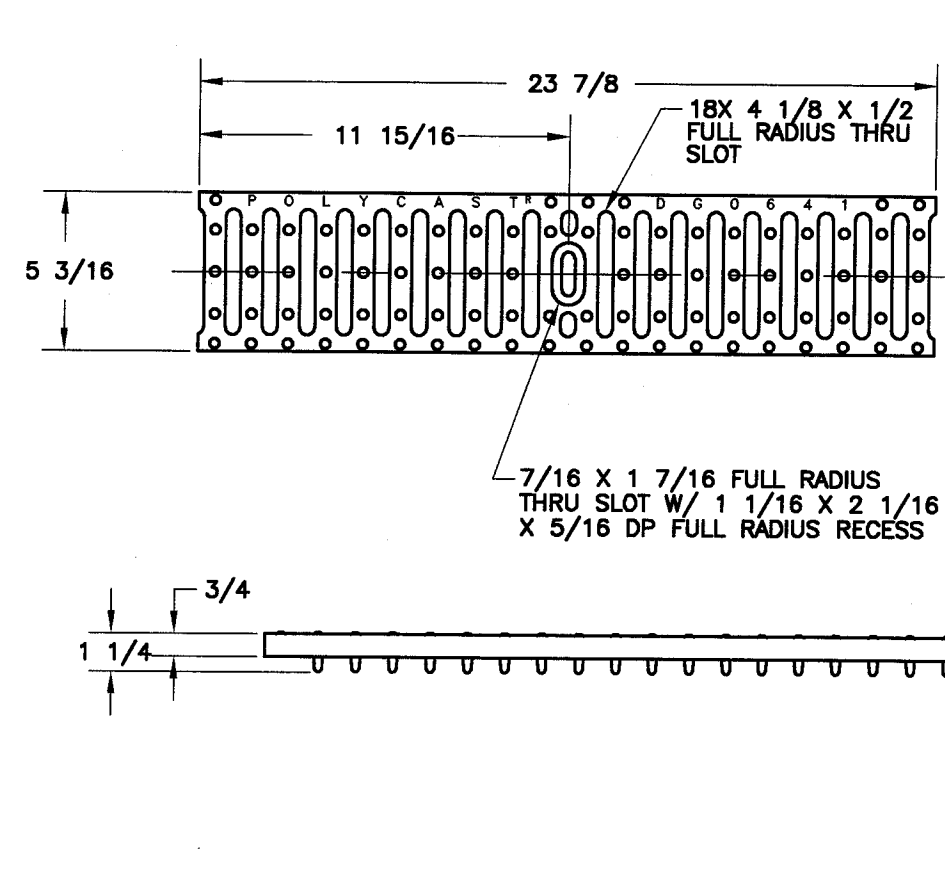
SECTION B-B WITH CURB

(2" DEPRESSION)

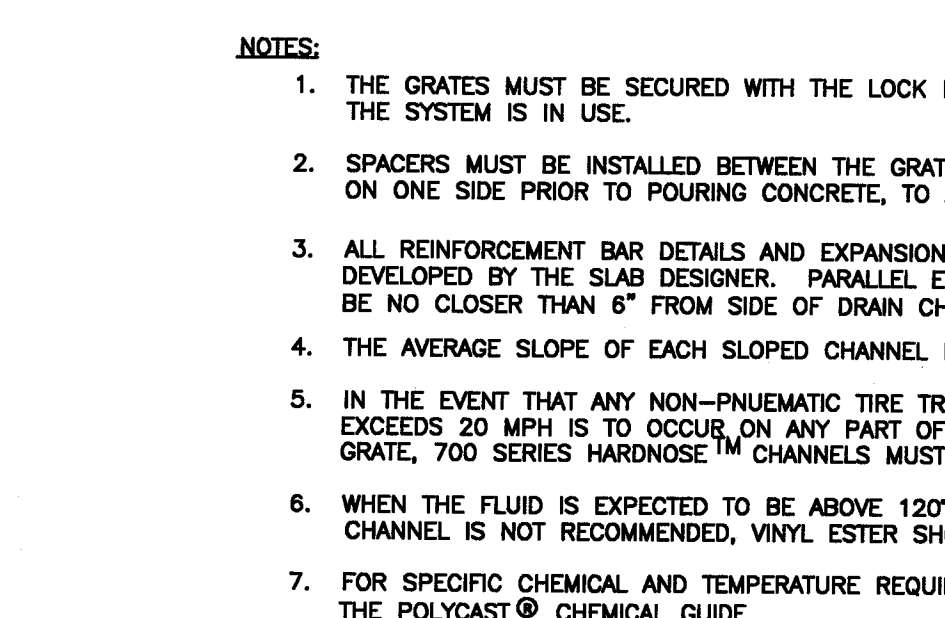


CONCRETE ENCASEMENT DETAIL

(LENGTH OF ENCASEMENT AS REQUIRED OR SPECIFIED)



TRENCH DRAIN DETAIL



UNDERDRAIN DETAIL

NOT TO SCALE

SECTION B-B WITH CURB

(2" DEPRESSION)

SECTION A-A

SECTION B-B WITH CURB

(2" DEPRESSION)

SECTION A-A

SECTION B-B WITH CURB

(2" DEPRESSION)

SECTION A-A

SECTION B-B WITH CURB

(2" DEPRESSION)

SECTION A-A

SECTION B-B WITH CURB

(2" DEPRESSION)

SECTION A-A

SECTION B-B WITH CURB

(2" DEPRESSION)

SECTION A-A

SECTION B-B WITH CURB

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SECTION B-B WITH CURB

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SECTION A-A

SECTION B-B WITH CURB

(2" DEPRESSION)

SECTION A-A

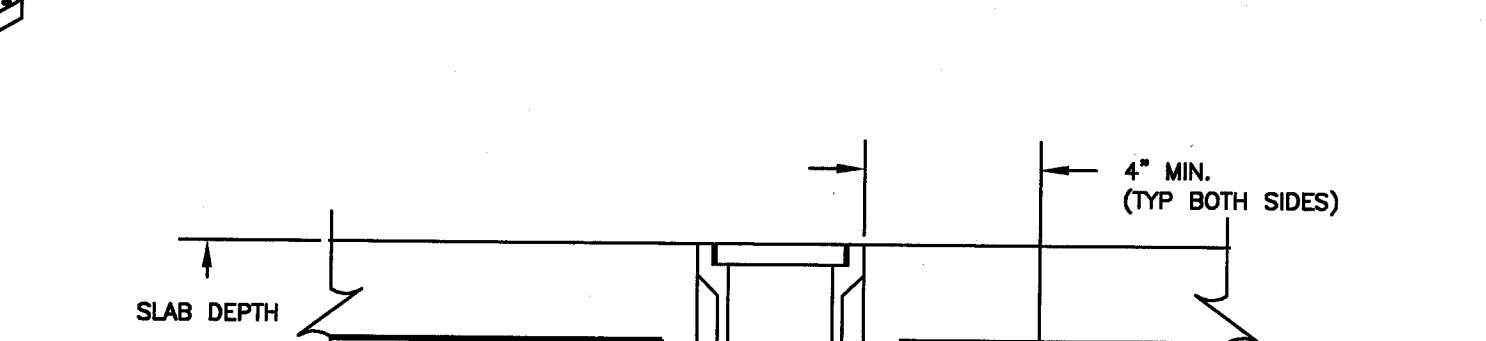
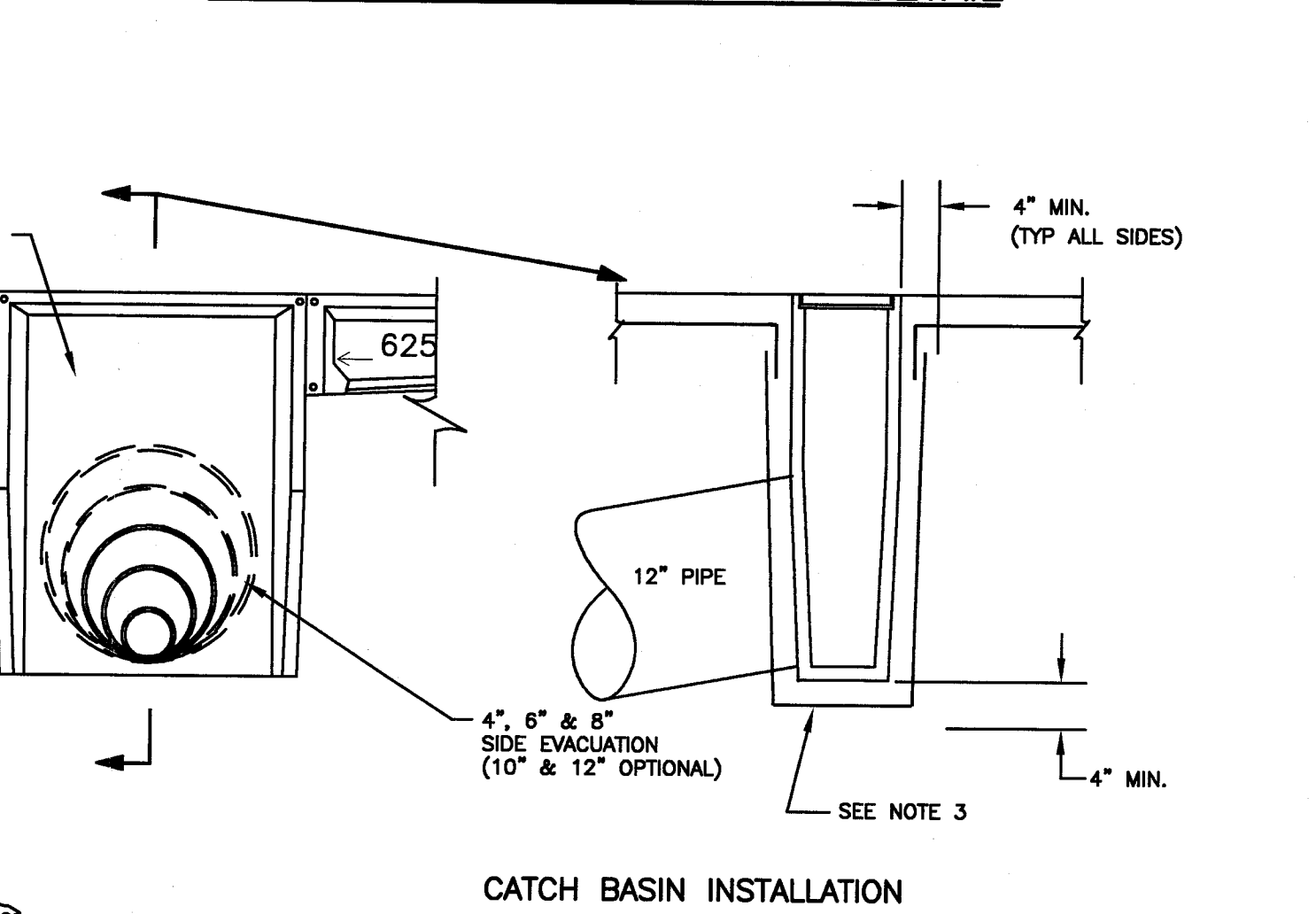
SECTION B-B WITH CURB

(2" DEPRESSION)

NOTES:

- NEITHER THE CONNECTING SEWER NOR THE CONCRETE COLLAR SHALL EXTEND INTO THE HIGHWAY SEWER.
 BACKFILL AROUND COLLAR AFTER CONCRETE HAS ATTAINED SUFFICIENT STRENGTH.
 FOR CONNECTIONS TO NEW SEWERS, APPROPRIATE SIZED TEE CONNECTIONS OR NEATLY CORED AND COLLARED CONNECTIONS MAY BE USED. EXCEPT FOR LATERAL SERVICE CONNECTIONS, CORED AND COLLARED CONNECTION WILL NOT BE PERMITTED ON NEW SEWER CONNECTIONS WHERE THE RATIO OF THE CONNECTING PIPE SIZE TO THE MAIN LINE PIPE SIZE IS MORE THAN 2.5.

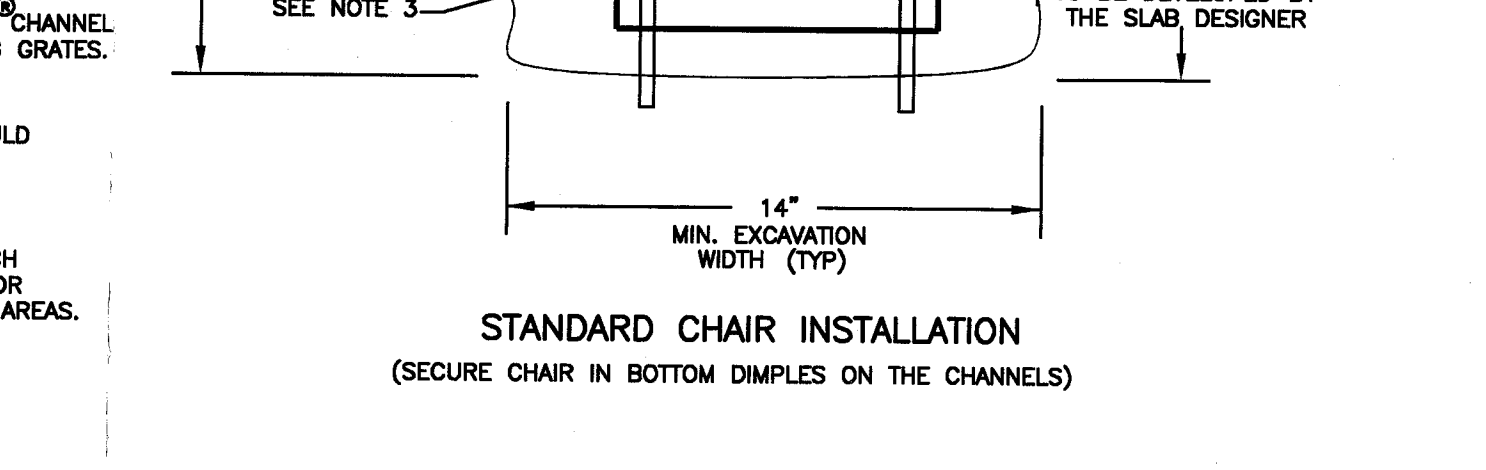
TYPICAL CONCRETE COLLAR DETAIL



STANDARD CATCH BASIN INSTALLATION

(SECURE CHAIR IN BOTTOM DIMPLES ON THE CHANNELS)

TRENCH DRAIN DETAIL



UNDERDRAIN DETAIL

NOT TO SCALE

SECTION B-B WITH CURB

(2" DEPRESSION)

SECTION A-A

SECTION B-B WITH CURB

(2" DEPRESSION)

SECTION A-A

SECTION B-B WITH CURB

(2" DEPRESSION)

SECTION A-A

SECTION B-B WITH CURB

(2" DEPRESSION)

SECTION A-A

SECTION B-B WITH CURB

(2" DEPRESSION)

SECTION A-A

SECTION B-B WITH CURB

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(2" DEPRESSION)

SECTION A-A

SECTION B-B WITH CURB

(2" DEPRESSION)

SECTION A-A

SECTION B-B WITH CURB

(2" DEPRESSION)

SECTION A-A

SECTION B-B WITH CURB

(2" DEPRESSION)

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 3030 West Stevenson Road
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 (614) 292-6888
 (614) 292-6877
 (614) 292-6878

ISSUED FOR CITY APPROVAL
 08/25/05
 REVISE GRADES & DRAINS
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 TARGET COMMENTS
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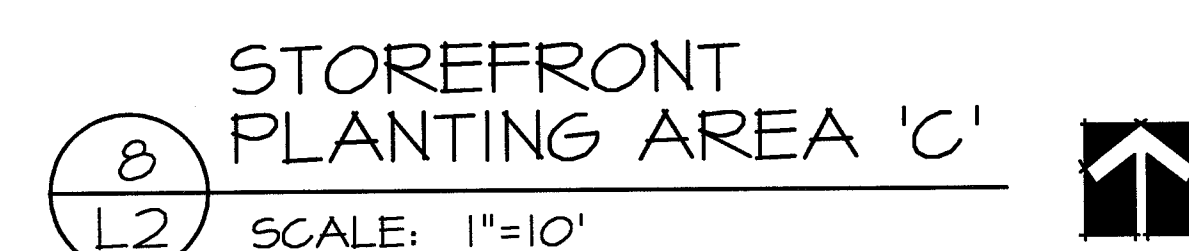
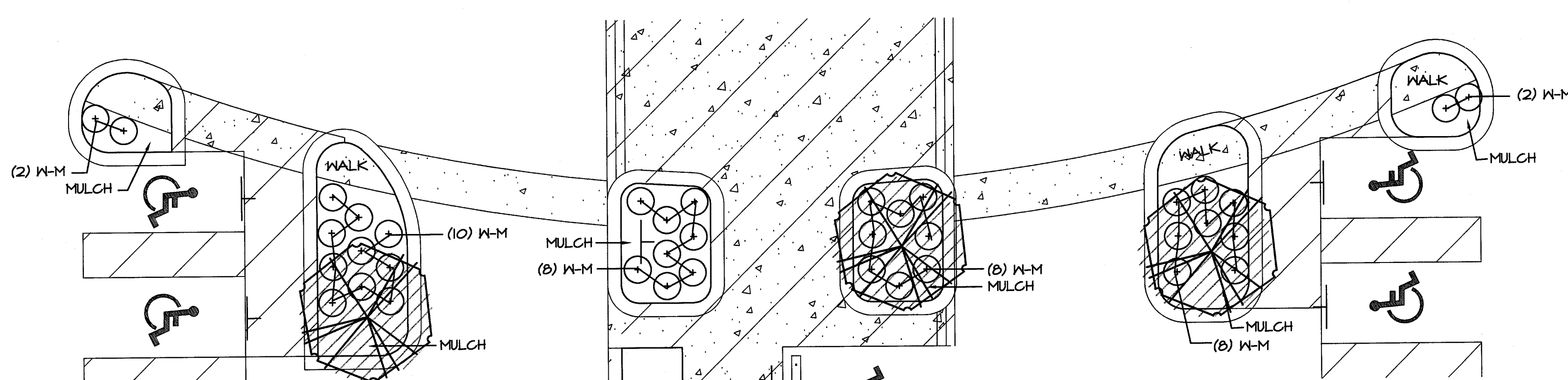
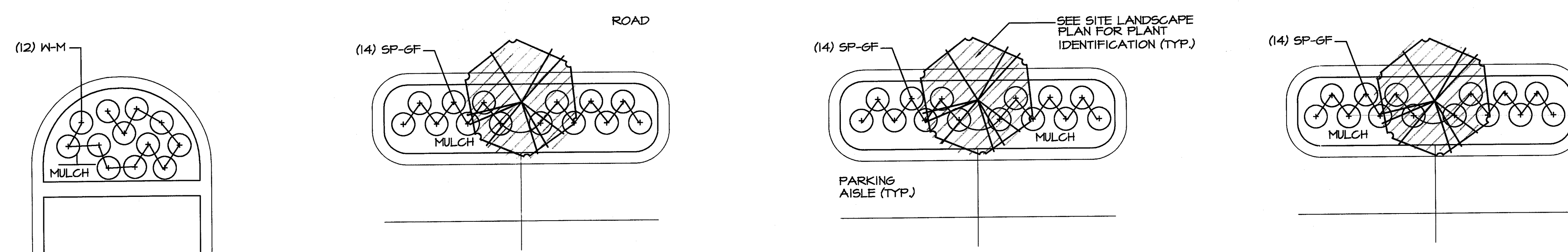
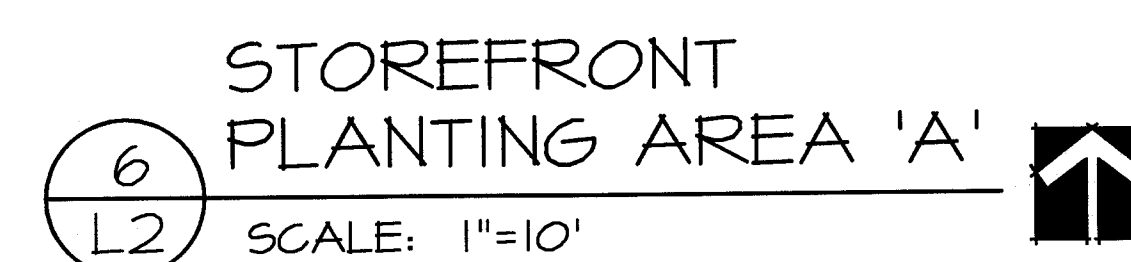
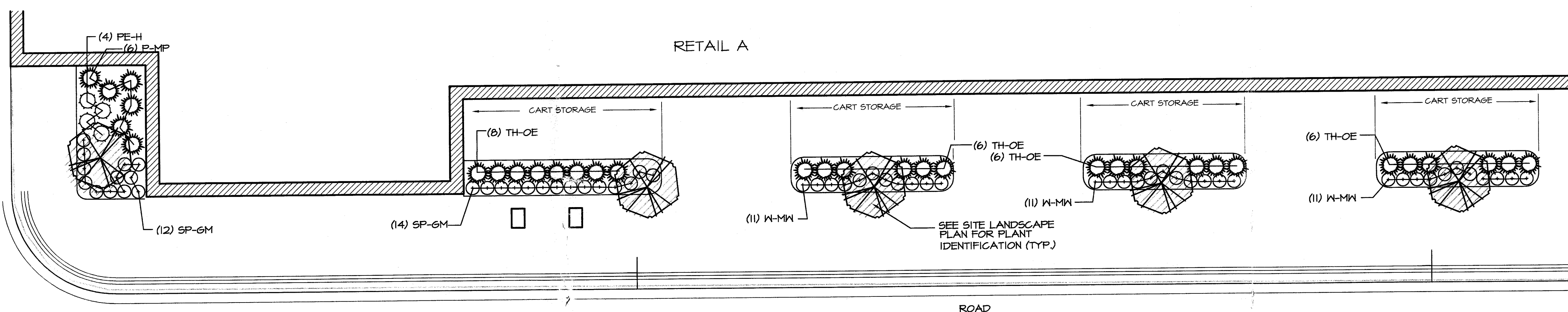
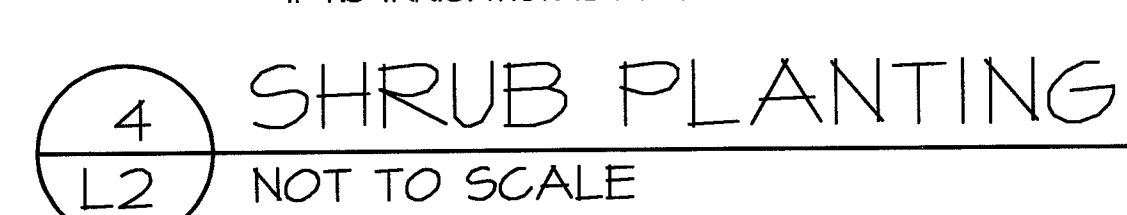
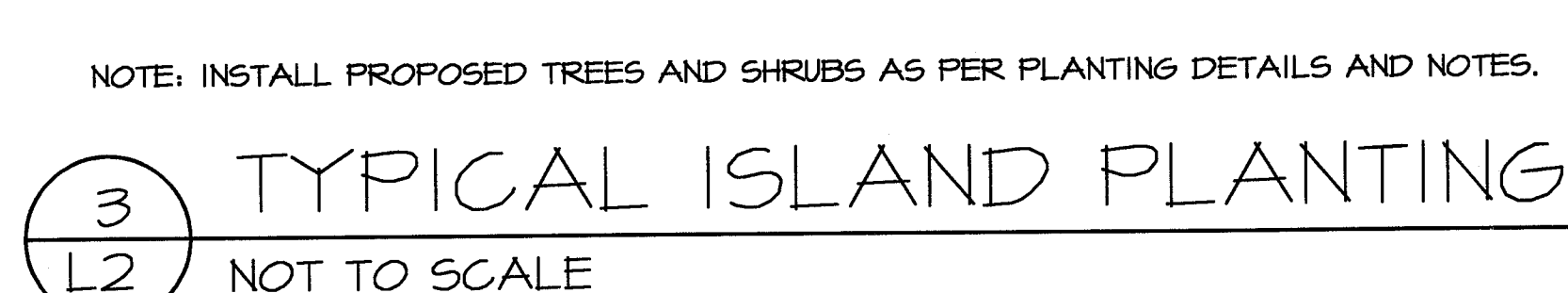
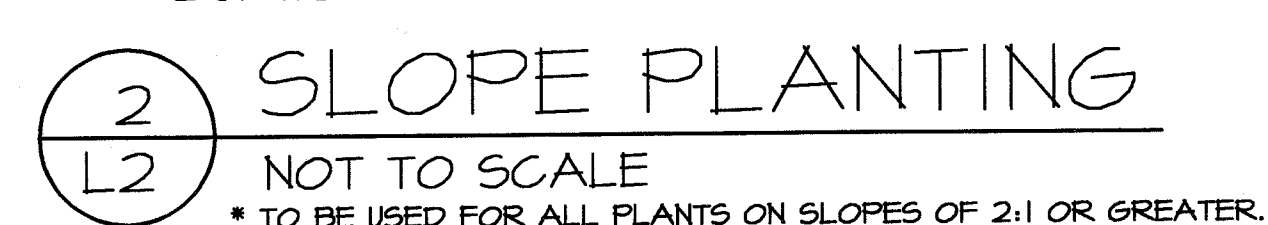
PROPOSED
 MEADOWS PLAZA
 REDEVELOPMENT
 MASSILLON, OHIO

SHEET TITLE
 DETAILS

SCALE

DATE
 8/21/06

C14



QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
10	AC-C	ACER X FREEMANNI 'CELEBRATION'	CELEBRATION MAPLE	2 1/2' CAL., 8' HT. MIN.	B&B
15	FR-AA	FRAXINUS AMERICANA 'AUTUMN APPLAUSE'	AUTUMN APPLAUSE WHITE ASH	2 1/2' CAL., 8' HT. MIN.	B&B
16	MA-P	MALUS 'PRAIRIFIRE'	PRAIRIFIRE CRAB	2 1/2' CAL., 4' HT. MIN.	B&B
1	MS-P	MISCANTHUS SINENSIS PURPURASCENS	PURPLE MAIDEN GRASS	#2 CONT.	CLUMP
3	MS-Z	MISCANTHUS SINENSIS 'ZEBRINA'	ZEBRA GRASS	#5 CONT.	CLUMP
4	PE-H	PENISETUM ALOPECUROIDES 'HAMELIN'	DWARF MOUNTAIN GRASS	#2 CONT.	CLUMP
4	PI-A	PICEA ABIES	NORWAY SPRUCE	6'-12' HT.	B&B
6	P-MP	PINUS MUGO 'FUMILIO'	FUMILIO MUGHO PINE	24"	B&B
33	PC-CS	PYRUS CALLERANA 'CLEVELAND SELECT'	CLEVELAND SELECT PEAR	2 1/2' CAL., 6' HT. MIN.	B&B
5	PC-GJ	PYRUS CALLERANA 'JACK'	JACK PEAR	2 1/2' CAL., 4' HT. MIN.	B&B
4	RU-S	RUBICEKIA FULGIDA 'GOLDSTURM'	BLACK-EYED SUSAN	#2 CONT.	CLUMP, 2' O.G.
42	SP-SF	SPIRAEA X BUMALDA 'GOLDFLAME'	GOLDFLAME SPIREA	18"	CONT.
26	SP-DM	SPIRAEA X BUMALDA 'GOLDMOUND'	GOLDMOUND SPIREA	16"	CONT.
13	SY-IS	SYRINGA RETICULATA 'IVORY SILK'	IVORY SILK TREE LILAC	2 1/2' CAL., 6' HT. MIN.	B&B
16	TX-D	TAXUS X MEDIA 'DENSIFORMIS'	DENSE YEW	18"	B&B
26	TH-OE	THUA OCCIDENTALIS 'EMERALD'	EMERALD ARBORVITAE	42" HT. MIN.	B&B, 3' O.G. MAX
10	V-C	VIBURNUM CARLESII	KOREAN SPICE VIBURNUM	24"	B&B
33	WM-M	WEIGELA FLORIDA 'MIDNIGHT WINE'	MIDNIGHT WINE WEIGELA	15"	B&B
10	WM-M	WEIGELA FLORIDA 'MINET'	MINNET WEIGELA	18"	B&B

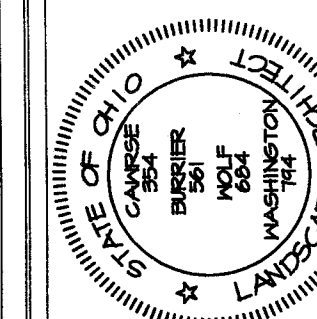
6 AC-C* ACER X FREEMANII 'CELEBRATION'

CELEBRATION MAPLE 2 1/2" CAL., 8' HT. MIN. B&B

REVISIONS: 07.08.04 LDS

OWNER / DEVELOPER:

CONTRACTOR: **AMCON**
DESIGN AND CONSTRUCTION CO., LLC



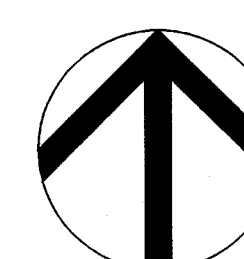
LANDSCAPE ARCHITECT:

CA

CAWRSE & ASSOCIATES, INC.
Landscape Architecture · Land Planning

547 E. Washington Street · Chagrin Falls, OH 44022
440-247-7003/fax 440-247-7143

PROPOSED
MEADOWS PLAZA
REDEVELOPMENT
MASSILLON, OHIO

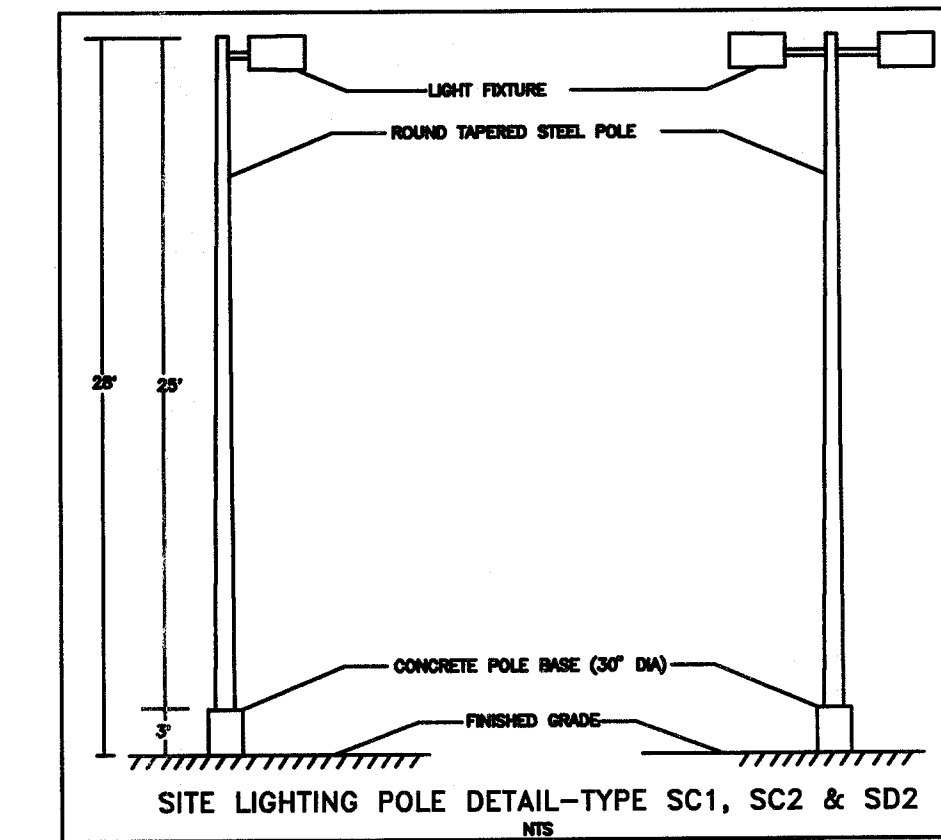
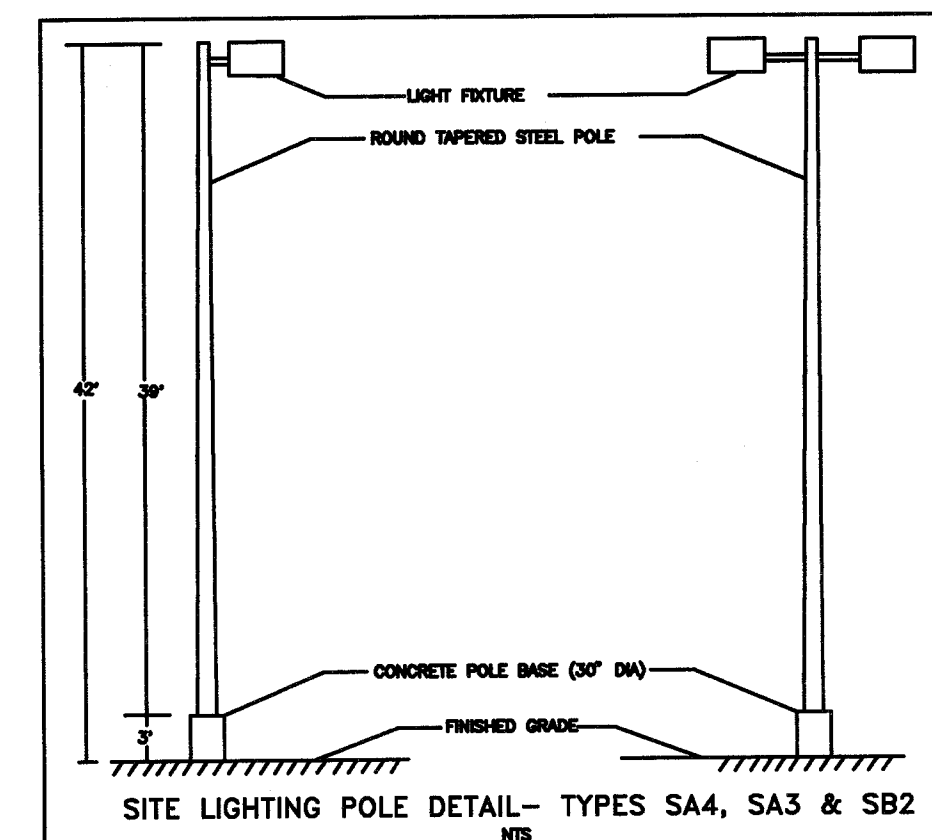
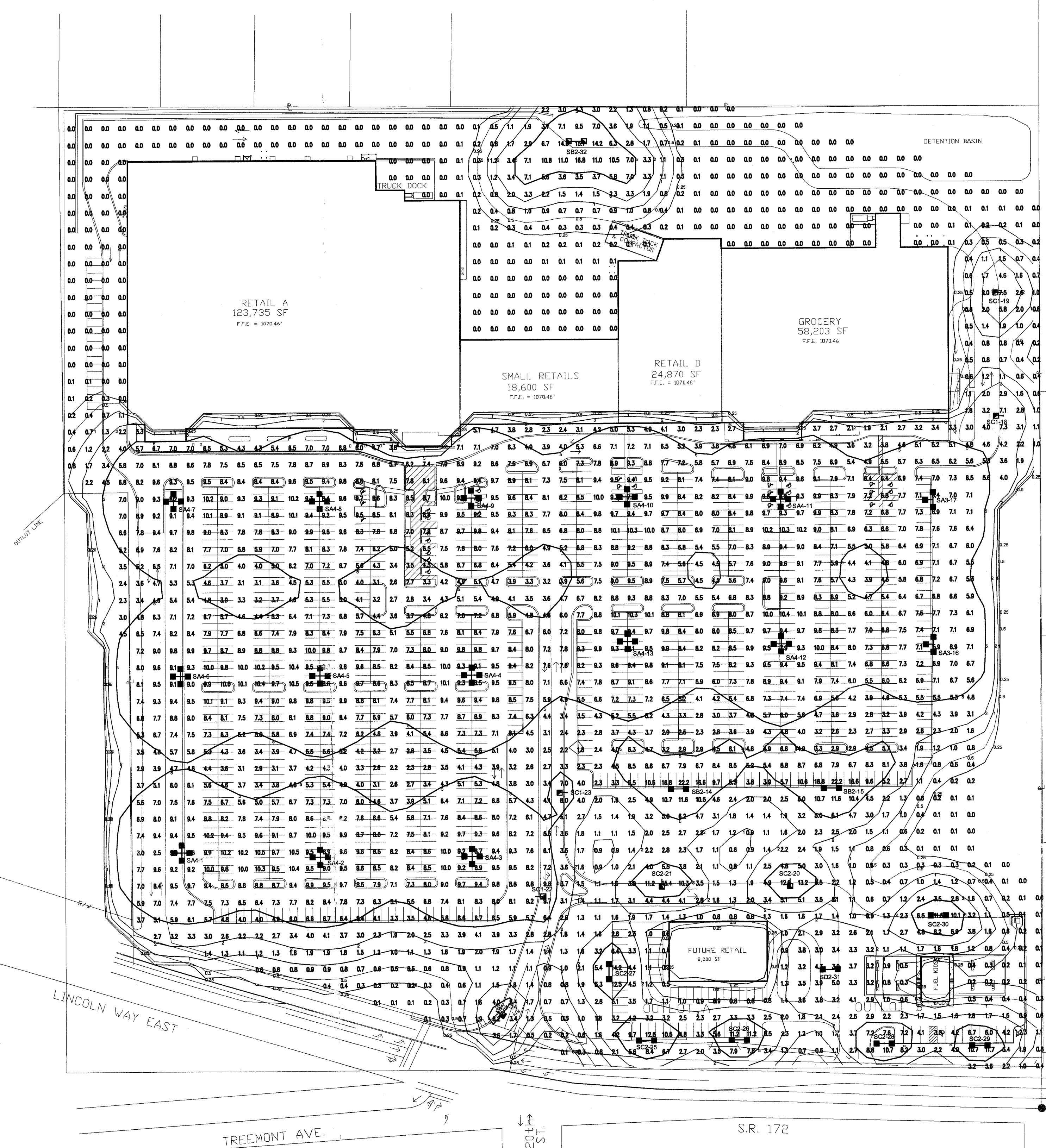


LANDSCAPE DETAILS

DATE

L 2

PROJECT NUMBER



LUMINAIRE LOCATIONS										
No.	Label	X	Location Y	Z	MH	Orientation	Tilt	X	Alt Y	Z
1	S44	7135.2	5417.9	42.0	42.0	0.0	0.0			
2	S44	7298.4	5412.1	42.0	42.0	0.0	0.0			
3	S44	7478.5	5412.1	42.0	42.0	0.0	0.0			
4	S44	7478.5	5638.2	42.0	42.0	0.0	0.0			
5	S44	7298.4	5638.2	42.0	42.0	0.0	0.0			
6	S44	7133.8	5638.2	42.0	42.0	0.0	0.0			
7	S44	7125.9	5636.3	42.0	42.0	0.0	0.0			
8	S44	7298.4	5636.3	42.0	42.0	0.0	0.0			
9	S44	7478.5	5638.0	42.0	42.0	0.0	0.0			
10	S44	7661.2	5638.8	42.0	42.0	0.0	0.0			
11	S44	7843.4	5635.1	42.0	42.0	0.0	0.0			
12	S44	7843.5	5863.5	42.0	42.0	0.0	0.0			
13	S44	7661.2	5866.5	42.0	42.0	0.0	0.0			
14	S82	7772.5	5461.3	42.0	42.0	-48.3	0.0			
15	S82	7601.6	5461.3	42.0	42.0	-49.3	0.0			
16	S43	8022.4	5861.6	42.0	42.0	180.0	0.0			
17	S43	8022.4	5933.5	42.0	42.0	180.0	0.0			
18	S21	8106.4	5832.0	28.0	28.0	-90.0	0.0	8106.5	5832.0	0.0
19	S21	8106.4	6078.9	28.0	28.0	-90.0	0.0	8106.5	6078.9	0.0
20	S22	7853.1	6383.4	28.0	28.0	90.0	0.0			
21	S22	7761.4	6383.7	28.0	28.0	90.0	0.0			
22	S21	7553.1	6363.3	28.0	28.0	90.0	0.0	7553.0	6363.6	0.0
23	S21	7590.0	5467.7	28.0	28.0	-90.0	0.0	7590.1	5467.7	0.0
24	S21	7506.8	6227.9	28.0	28.0	121.3	0.0	7506.8	6227.4	0.0
25	S22	7853.7	6191.9	28.0	28.0	289.3	0.0			
26	S22	7792.8	6191.6	28.0	28.0	-90.0	0.0			
27	S22	7638.4	6274.3	28.0	28.0	0.0	0.0			
28	S22	7661.7	6185.8	28.0	28.0	288.7	0.0			
29	S22	6275.7	5183.1	28.0	28.0	-90.0	0.0			
30	S22	6008.8	6338.7	28.0	28.0	80.5	0.0			
31	S22	7699.3	6275.3	28.0	28.0	90.0	0.0			
32	S22	7801.8	6361.0	42.0	42.0	90.0	0.0			

LUMINAIRE SCHEDULE									
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
 	S44	13	GS-XX-1000-MH-XX-AR-FG-XX-X	LARGE ARCHITECTURAL AREA FOCUS-RECESSED LAMP-ROUND DISTRIBUTION	1000 WATT MH CLEAR BT37	GS10MNFJES	115000	0.75	4000
 	S43	2	GS-XX-1000-MH-XX-AR-FG-XX-X	LARGE ARCHITECTURAL AREA FOCUS-RECESSED LAMP-ROUND DISTRIBUTION	1000 WATT MH CLEAR BT37	GS10MNFJES	115000	0.75	3000
 	S82	3	GS-XX-1000-MH-XX-AR-FG-XX-X	LARGE ARCHITECTURAL AREA FOCUS-RECESSED LAMP-TYPE B DISTRIBUTION	1000 WATT MH CLEAR BT-37	GS10MNFJES	115000	0.75	2000
 	S41	5	GSW-XX-400-MH-XX-3-FG-XX-XX-X	MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-TYPE B DISTRIBUTION	400 WATT MH CLEAR BT-37	GS40MNFJES	36000	0.75	400
 	S42	8	GSW-XX-400-MH-XX-3-FG-XX-XX-X	MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-TYPE B DISTRIBUTION	400 WATT MH CLEAR BT-37	GS40MNFJES	36000	0.75	800
 	S92	1	GSW-MH-400-MH-MT-AS-FG	MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-SQUARE DISTRIBUTION	400 WATT MH CLEAR BT-37	GS40MNFJSTLES	36000	0.75	800

STATISTICS					
Description	Avg	Max	Min	Max/Min	Avg/Min
Cale Zone #1	4.6 ft	22.2 ft	0.0 ft	0.0	0.0
TARGET FRONT	8.6 ft	10.2 ft	5.7 ft	1.8:1	1.5:1
TARGET PARKING	7.3 ft	10.6 ft	2.2 ft	4.8:1	3.3:1
RETAIL PARKING	6.6 ft	10.5 ft	1.8 ft	5.8:1	3.6:1
GROCERY PARKING	7.0 ft	22.2 ft	1.2 ft	18.5:1	6.8:1



REVIEWED BY:

Development Manager	/	
____ Revise and Resubmit	____ Not Reviewed	____ Approved as Noted
Project Architect	/	
____ Revise and Resubmit	____ Not Reviewed	____ Approved as Noted
Project Engineer (M)	/	
____ Revise and Resubmit	____ Not Reviewed	____ Approved as Noted
Project Engineer (E)	/	
____ Revise and Resubmit	____ Not Reviewed	____ Approved as Noted
Project Engineer (S)	/	
____ Revise and Resubmit	____ Not Reviewed	____ Approved as Noted

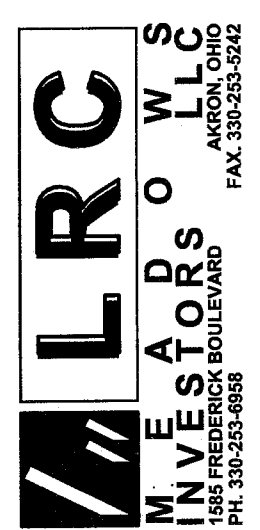
Approved only for conformance of the site construction documents to Target Developer

for completeness, accuracy, and dimensions on the site construction documents.

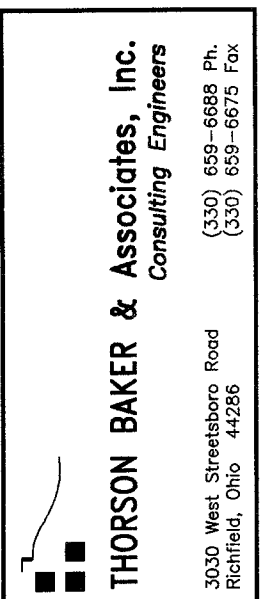
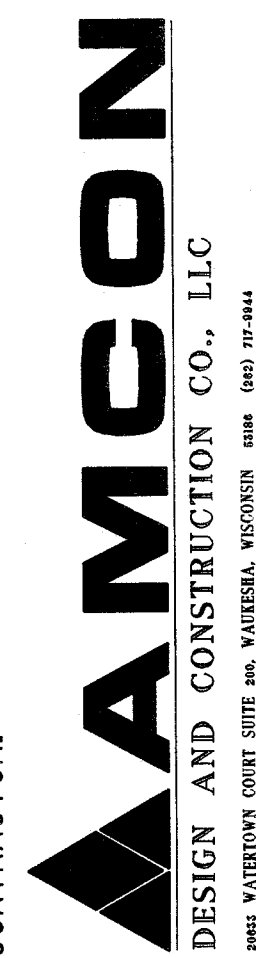
for completeness, accuracy, and dimensions on the site construction documents.

REVISIONS:

OWNER / DEVELOPER:

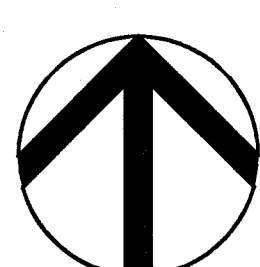


CONTRACTOR:



ISSUED FOR
CONSTRUCTION
08/00/04

PROPOSED
MEADOWS PLAZA
REDEVELOPMENT
MASSILLON, OHIO



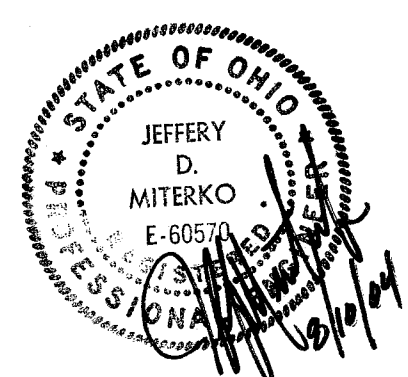
SHEET TITLE
ELECTRICAL
SITE PHOTOMETRIC
PLAN

SCALE: 1"=30'-0"

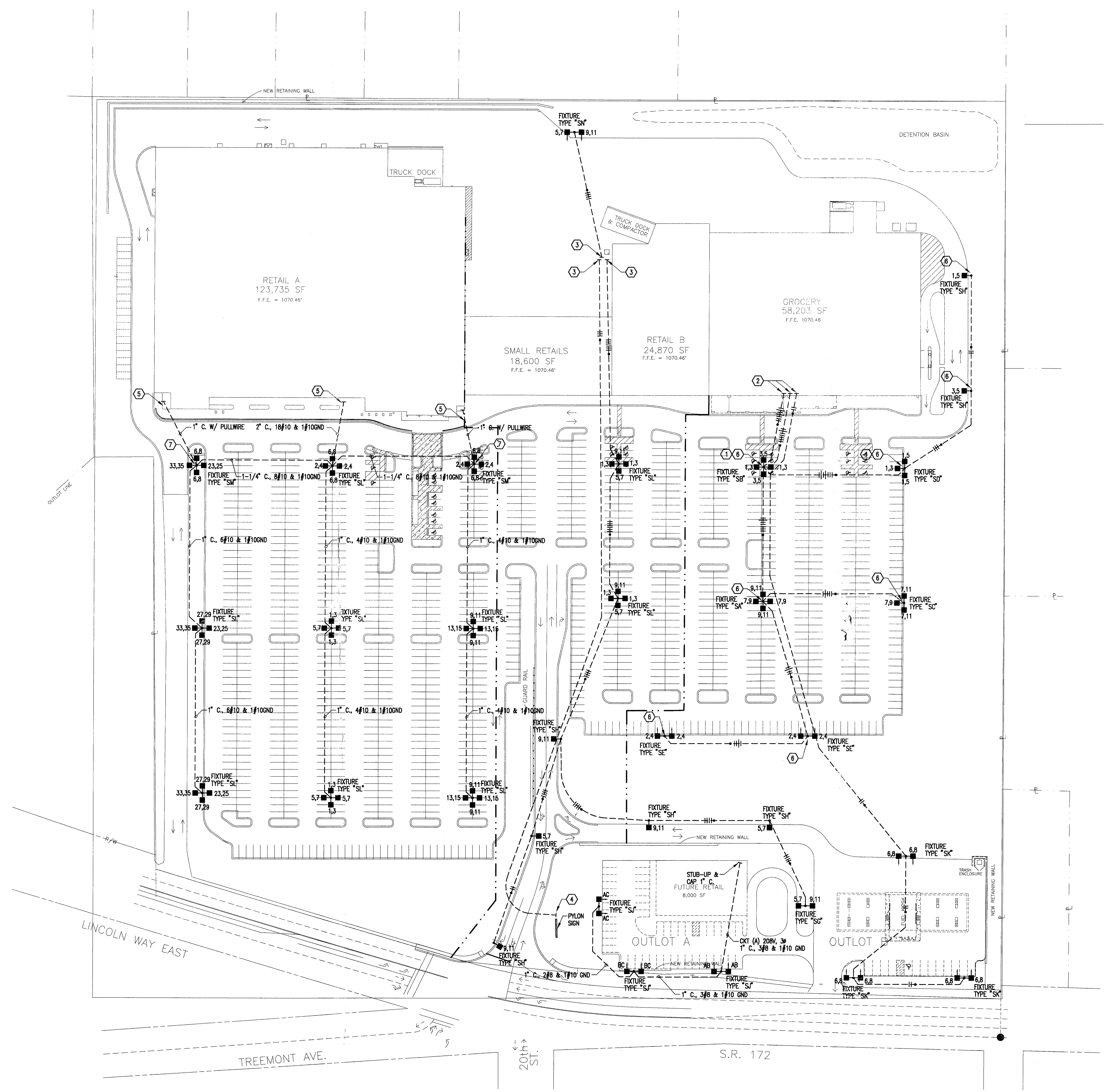
DATE:

ES-1

PROJECT NUMBER



TBA Eng N:\proj\2003-0821ES-2.dwg Scale: 3/16"=1'-0" Date: Aug. 09, 2004 Time: 10:53 am



ELECTRICAL SITE PLAN
1" = 60'-0"

SITE ELECTRICAL NOTES

1. EXACT LOCATIONS OF PARKING LOT LIGHTING STANDARDS SHALL BE COORDINATED WITH APPROVED ARCHITECTURAL SITE PLAN AND PARKING LOT LAYOUT.
2. ALL LIGHTING FIXTURES PROJECTING TOWARD ADJACENT RESIDENTIAL AREAS MUST BE PROPERLY SHIELDED TO PREVENT LIGHT SOURCE FROM EXTENDING INTO THIS AREA.
3. THE LUMINAIRE MANUFACTURER SHALL PROVIDE COMPUTER GENERATED POINT BY POINT FOOTCANDLE CALCULATIONS ALONG WITH THEIR SHOP DRAWINGS SUBMITTAL. THE FORMAT OF THIS POINT BY POINT CALCULATION SHALL BE IN THE FORM OF AN OVERLAY OF THE ENTIRE PARKING AREA WITH CALCULATED POINTS 25 FEET ON CENTER.
4. ALL SITE LIGHTING POLES SHALL BE DESIGNED TO WITHSTAND 100 MPH WINDS WITH A 1.5 GUST FACTOR.
5. ELECTRICAL CONTRACTOR SHALL INSTALL EACH LIGHTING POLE PLUMB AND TRUE. ELECTRICAL CONTRACTOR SHALL PROVIDE NECESSARY LEVELING SHIMS.
6. ELECTRICAL CONTRACTOR SHALL BACKFILL ALL ELECTRICAL TRENCHES USING CLEAN FILL MATERIAL FREE OF ORGANIC CONTAMINATIONS AND OTHER DELETERIOUS MATTER. PLACE BACKFILL MATERIAL IN 8" THICK LAYERS WITH EACH LIFT COMPACTED AT NEAR OPTIMUM MOISTURE CONTENT. COMPACT LIFTS TO ACHIEVE A MINIMUM IN PLACE DENSITY OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698.
7. ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF EASEMENTS, UNDERGROUND UTILITIES, AND DRAINAGE PRIOR TO TRENCHING OR AUGERING FOR POLE BASE. (TYPICAL)
8. ALL CONDUIT ELBOWS SHALL BE GALVANIZED RIGID CONDUIT.
9. CONDUITS SHALL BE RUN AT 3'-0" BELOW GRADE, UNLESS OTHERWISE NOTED.

CODED NOTES

1. PROVIDE (2) FLOODLIGHTS MOUNTED ON POLE AS SHOWN ON SHEET ES-3 DETAIL. FLOODLIGHTS TO ILLUMINATE TENANT STOREFRONT. (2774)
2. PROVIDE A WALL MOUNTED JUNCTION BOX IN TENANT SPACE. SIZE AND TYPE PER REC. EXACT LOCATION TO BE COORDINATED WITH TENANT PROJECT MANAGER. SITE LIGHTING CONDUIT AND WIRE SHALL BE RUN TO JUNCTION BOX.
3. RUN CONDUIT AND WIRE TO NEMA 3R JUNCTION BOX TEMPORARILY MOUNTED ON STRUT. EXACT LOCATION TO BE COORDINATED WITH LANDLORD'S PROJECT MANAGER. PROVIDE EXTRA 10'-0" OF CONDUIT AT JUNCTION BOX.
4. Pylon sign phase 1 - STUB-UP PYLON SIGN FEEDER INTO NEMA 3R JUNCTION BOX. PROVIDE EXTRA 5'-0" OF CONDUIT AT JUNCTION BOX. COORDINATE ALL WORK WITH LANDLORD PROJECT MANAGER. VERIFY SIGN REQUIREMENTS PRIOR TO ROUGH-IN.
5. CONDUIT RUN TO WITHIN FIVE FEET OF TENANT SPACE. VERIFY ROUTING OF CONDUIT WITH TENANT PROJECT MANAGER.
6. FACTORY INSTALLED GFCI RECEPTACLE MOUNTED ON POLE NEAR HANDHOLE. PROVIDE 120V CIRCUIT AND MAKE TERMINATIONS.
7. ADDITIONAL HANDHOLE AT 27'-0" ON POLE FOR TENANT SECURITY CAMERA. COORDINATE REQUIREMENTS WITH TENANT PRIOR TO ORDERING.

ELECTRICAL SYMBOLS

- ||| - SHORT LINE INDICATES A CURRENT CARRYING CONDUCTOR
--- LONG LINE INDICATES A NEUTRAL CONDUCTOR
... DOT INDICATES GROUNDING CONDUCTOR
- - POLE MOUNTED LIGHT FIXTURE
--> ARROW INDICATES DIRECTION OF FIXTURE OPTICS
- CONDUIT RUN UNDERGROUND
- - - CONDUIT RUN UNDERGROUND, STUBBED-UP, UNLESS OTHERWISE NOTED

ALL SITE LIGHTING CIRCUITING SHALL BE #6 AWG WITH #6 GND IN 1-1/4" C. (MINIMUM), UNLESS NOTED OTHERWISE.



OWNER / DEVELOPER:

LRC
N.E. Adams
1880 FARMERS BUILDING
ANN ARBOR, MI 48106
TEL: 313-553-5888
FAX: 313-553-5842

CONTRACTOR:

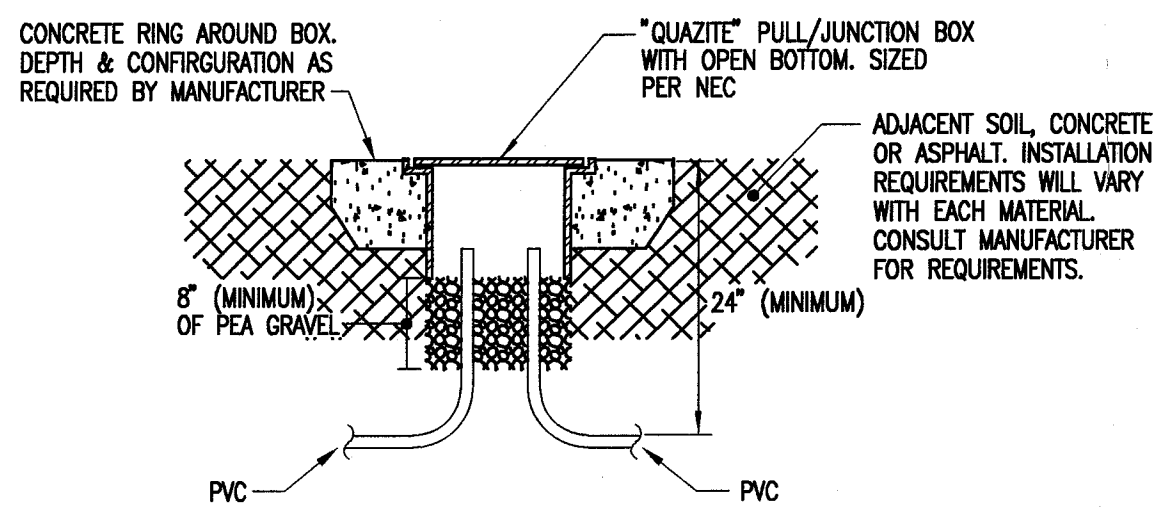
AMCON
DESIGN AND CONSTRUCTION CO., LLC
8800 WATERWAYS COURT SUITE 100 WATERBURY, VERMONT 05671
(802) 774-7444

ISSUED FOR CONSTRUCTION
08/09/04

PROPOSED
**MEADOWS PLAZA
REDEVELOPMENT
MASSILLON, OHIO**

SHEET TITLE
**ELECTRICAL
SITE
PLAN**
SCALE: 1/8"=1'-0"

DATE:
ES-2



IN-GRADE PULL/JUNCTION BOX DETAIL

NOT TO SCALE

NOTES:

1. SPLICES SHALL BE AVOIDED WHERE POSSIBLE. WHERE REQUIRED, SPLICES SHALL BE MADE WITH WATERPROOF CONNECTORS.
2. CONCRETE ENCASMENT TO BE 3,000 PSI MINIMUM.
3. DO NOT LOCATE BOXES IN HIGH VOLUME TRAFFIC APPLICATIONS.
4. COMPACT SOIL AROUND BOX TO MANUFACTURER'S RECOMMENDATIONS.
5. THIS DETAIL IS INTENDED TO SHOW GENERAL DESIGN INTENT ONLY. THE ELECTRICAL CONTRACTOR MUST VERIFY ALL INSTALLATION REQUIREMENTS WITH THE MANUFACTURER PRIOR TO THE BIDDING AND INSTALL ALL BOXES ACCORDINGLY.

(REFERENCE ONLY)

PANELBOARD NOTES

1. ALL BREAKERS SHALL BE 20A/1P, UNLESS NOTED OTHERWISE.
2. [T] INDICATES BREAKER SHALL BE "TSM" RATED.
3. [H] INDICATES BREAKER SHALL BE "HACK" RATED.
4. [3] INDICATES BREAKER SHALL BE 30 MVA "G.F.I." TYPE.
5. [M] INDICATES BREAKER SHALL BE SHUNT-TRIP TYPE.
6. [S] INDICATES BREAKER TO HAVE LOCK-ON CLIP.
7. [E] INDICATES BREAKER TO HAVE LOCK-ON CLIP AND RED MARKING.
8. "C-F" INDICATES DESIGNATION OF CONTACTOR CONTROLLING CIRCUIT. SEE CONTACTOR SCHEDULE.

(UNDER SEPARATE CONTRACT)

(REFERENCE ONLY)

RETAIL "A" SITE LIGHTING PANEL

PANELBOARD DESIGNATION SL											
VOLTS			PH			WIRE SOLID NEUTRAL			MOUNTING: FLUSH		
AMPERE BUS			AMPERE MAIN			SURFACE					
KVA	DESCRIPTION		KVA	DESCRIPTION		KVA	DESCRIPTION		KVA	DESCRIPTION	
1	2.8	20/2	1	2.8	20/2	1	2.8	20/2	1	2.8	20/2
2	2.8	20/2	2	2.8	20/2	2	2.8	20/2	2	2.8	20/2
3	2.8	20/2	3	2.8	20/2	3	2.8	20/2	3	2.8	20/2
4	2.8	20/2	4	2.8	20/2	4	2.8	20/2	4	2.8	20/2
5	2.2	20/2	5	2.2	20/2	5	2.2	20/2	5	2.2	20/2
6	2.2	20/2	6	2.2	20/2	6	2.2	20/2	6	2.2	20/2
7	2.2	20/2	7	2.2	20/2	7	2.2	20/2	7	2.2	20/2
8	2.2	20/2	8	2.2	20/2	8	2.2	20/2	8	2.2	20/2
9	2.2	20/2	9	2.2	20/2	9	2.2	20/2	9	2.2	20/2
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11	2.2	20/2	11	2.2	20/2	11	2.2	20/2	11	2.2	20/2
12	2.2	20/2	12	2.2	20/2	12	2.2	20/2	12	2.2	20/2
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16	2.2	20/2	16	2.2	20/2	16	2.2	20/2	16	2.2	20/2
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31	2.2	20/2	31	2.2	20/2	31	2.2	20/2	31	2.2	20/2
32	2.2	20/2	32	2.2	20/2	32	2.2	20/2	32	2.2	20/2
33	2.2	20/2	33	2.2	20/2	33	2.2	20/2	33	2.2	20/2
34	2.2	20/2	34	2.2	20/2	34	2.2	20/2	34	2.2	20/2
35	2.2	20/2	35	2.2	20/2	35	2.2	20/2	35	2.2	20/2
36	2.2	20/2	36	2.2	20/2	36	2.2	20/2	36	2.2	20/2
37	2.2	20/2	37	2.2	20/2	37	2.2	20/2	37	2.2	20/2
38	2.2	20/2	38	2.2	20/2	38	2.2	20/2	38	2.2	20/2
39	2.2	20/2	39	2.2	20/2	39	2.2	20/2	39	2.2	20/2
40	2.2	20/2	40	2.2	20/2	40	2.2	20/2	40	2.2	20/2
41	2.2	20/2	41	2.2	20/2	41	2.2	20/2	41	2.2	20/2
42	2.2	20/2	42	2.2	20/2	42	2.2	20/2	42	2.2	20/2

KVA SUB TOTALS [15.0] [13.9] [13.3]

TOTAL CONNECTED LOAD 42.2 KVA

(UNDER SEPARATE CONTRACT)

(REFERENCE ONLY)

SMALL RETAIL "B" SITE LIGHTING PANEL

PANELBOARD DESIGNATION SL											
VOLTS			PH			WIRE SOLID NEUTRAL			MOUNTING: FLUSH		
AMPERE BUS			AMPERE MAIN			SURFACE					
KVA	DESCRIPTION		KVA	DESCRIPTION		KVA	DESCRIPTION		KVA	DESCRIPTION	
1	2.2	20/2	1	2.2	20/2	1	2.2	20/2	1	2.2	20/2
2	2.2	20/2	2	2.2	20/2	2	2.2	20/2	2	2.2	20/2
3	2.2	20/2	3	2.2	20/2	3	2.2	20/2	3	2.2	20/2
4	2.2	20/2	4	2.2	20/2	4	2.2	20/2	4	2.2	20/2
5	2.2	20/2	5	2.2	20/2	5	2.2	20/2	5	2.2	20/2
6	2.2	20/2	6	2.2	20/2	6	2.2	20/2	6	2.2	20/2
7	2.2	20/2	7	2.2	20/2	7	2.2	20/2	7	2.2	20/2
8	2.2	20/2	8	2.2	20/2	8	2.2	20/2	8	2.2	20/2
9	2.2	20/2	9	2.2	20/2	9	2.2	20/2	9	2.2	20/2
10	2.2	20/2	10	2.2	20/2	10	2.2	20/2	10	2.2	20/2
11	2.2	20/2	11	2.2	20/2	11	2.2	20/2	11	2.2	20/2
12	2.2	20/2	12	2.2	20/2	12	2.2	20/2	12	2.2	20/2
13	2.2	20/2	13	2.2	20/2	13	2.2	20/2	13	2.2	20/2
14	2.2	20/2	14	2.2	20/2	14	2.2	20/2	14	2.2	20/2
15	2.2	20/2	15	2.2	20/2	15	2.2	20/2	15	2.2	20/2
16	2.2	20/2	16	2.2	20/2	16	2.2	20/2	16	2.2	20/2
17	2.2	20/2	17	2.2	20/2	17	2.2	20/2	17	2.2	20/2
18	2.2	20/2	18	2.2	20/2	18	2.2	20/2	18	2.2	20/2
19	2.2	20/2	19	2.2	20/2	19	2.2	20/2	19	2.2	20/2
20	2.2	20/2	20	2.2	20/2	20	2.2	20/2	20	2.2	20/2
21	2.2	20/2	21	2.2	20/2	21	2.2	20/2	21	2.2	20/2
22	2.2	20/2	22	2.2	20/2	22	2.2	20/2	22	2.2	20/2
23	2.2	20/2	23	2.2	20/2	23	2.2	20/2	23	2.2	20/2
24	2.2	20/2	24	2.2	20/2	24	2.2	20/2	24	2.2	20/2
25	2.2	20/2	25	2.2	20/2	25	2.2	20/2	25	2.2	20/2
26	2.2	20/2	26	2.2	20/2	26	2.2	20/2	26	2.2	20/2
27	2.2	20/2	27	2.2	20/2	27	2.2	20/2	27	2.2	20/2
28	2.2	20/2	28	2.2	20/2	28	2.2	20/2	28	2.2	20/2
29	2.2	20/2	29	2.2	20/2	29	2.2	20/2	29	2.2	20/2
30	2.2	20/2	30	2.2	20/2	30	2.2	20/2	30	2.2	20/2
31	2.2	20/2	31	2.2	20/2	31	2.2	20/2	31	2.2	20/2
32	2.2	20/2	32	2.2	20/2	32	2.2	20/2	32	2.2	20/2
33	2.2	20/2	33	2.2	20/2	33	2.2	20/2	33	2.2	20/2
34	2.2	20/2	34	2.2	20/2	34	2.2	20/2	34	2.2	20/2
35	2.2	20/2	35	2.2	20/2	35	2.2	20/2	35	2.2	20/2
36	2.2	20/2	36	2.2	20/2	36	2.2	20/2	36	2.2	20/2
37	2.2	20/2	37	2.2	20/2	37	2.2	20/2	37	2.2	20/2
38	2.2	20/2	38	2.2	20/2	38	2.2	20/2	38	2.2	20/2
39	2.2	20/2	39	2.2	20/2	39	2.2	20/2	39	2.2	20/2
40	2.2	20/2	40	2.2	20/2	40	2.2	20/2	40	2.2	20/2
41	2.2	20/2	41	2.2	20/2	41	2.2	20/2	41	2.2	20/2
42	2.2	20/2	42	2.2	20/2	42	2.2	20/2	42	2.2	20/2

KVA SUB TOTALS [7.8] [7.8] [8.0]

TOTAL CONNECTED LOAD 23.4 KVA

(UNDER SEPARATE CONTRACT)

(REFERENCE ONLY)

GROCERY SITE LIGHTING PANEL

PANELBOARD DESIGNATION										SL		
VOLTS			PH			WIRE SOLID NEUTRAL			MOUNTING: FLUSH			
AMPERE BUS			AMPERE MAIN						SURFACE			
SPECIAL REQUIREMENTS												
KVA	DESCRIPTION						DESCRIPTION					KVA
1	3.3	SITE LTG "FIRST ROW"					20/3	A	B	C	20/2	2.2
							5.5					2.2
3	3.3							5.5			20/2	2.2
5	3.3								4.7			1.4
7	2.8	SITE LTG "MIDDLE ROW"					20/3	4.2			20/2	1.4
9	2.8								4.7			1.9
11	2.2									2.2	20/2	1.9
13	SPARE						-					12
15	SPARE						-					14
17	SPARE						-					16
19	SPARE						-					18
21	SPARE						-					20
23	SPARE						-					22
25	SPARE						-					24
27	SPARE						-					26
29	SPARE						-					28
31	SPARE						-					30
33	SPARE						-					32
35	SPARE						-					34
37	SPARE						-					36
39	SPARE						-					38
41	SPARE						-					40
43	SPARE						-					42
KVA SUB TOTALS						5.7	10.2	6.9				
						TOTAL CONNECTED LOAD						26.8 KVA

ELECTRICAL SPECIFICATION INDEX

SECTION 16010 - GENERAL PROVISIONS
SECTION 16020 - BASIC ELECTRICAL MATERIALS AND METHODS
SECTION 16100 - WIRE AND CABLE
SECTION 16130 - RACEWAYS AND BOXES
SECTION 16140 - WIRING DEVICES
SECTION 16410 - SAFETY SWITCHES
SECTION 16491 - FUSES
SECTION 16511 - LIGHTING FIXTURES

SECTION 16010 - GENERAL PROVISIONS

- REQUIREMENTS SPECIFIED IN DIVISION 1, CONDITIONS, SPECIAL CONDITIONS, ADDENDUM, ALTERNATES, CONTRACT AND PROPOSAL, ALONG WITH DIVISION 16 AND ALL ITS SECTIONS, COMPREHENSIVE THE CONTRACT DOCUMENTS FOR THE ELECTRICAL CONTRACT. DRAWINGS AND ALL THEIR REVISIONS UP TO THE BID SUBMITTAL DATE BECOME A BINDING PART OF THE CONTRACT. ALONG WITH THESE SPECIFICATIONS AS THOUGH THEY WERE ONE, AND ANYTHING IMPLIED BY THE SPECIFICATIONS SHALL BE INTERPRETED AS ALSO IMPLIED BY THE SPECIFICATIONS AND VICE VERSA. PROVIDE NECESSARY ELECTRICAL OPERATED EQUIPMENT LISTED IN THE SPECIFICATIONS OR SHOWN ON THE CONTRACT DRAWINGS.
- THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND EQUIPMENT DRAWINGS AND SPECIFICATIONS ARE INCORPORATED INTO, AND BECOME A PART OF THIS DIVISION. THIS CONTRACTOR SHALL EXAMINE ALL SUCH DRAWINGS AND SPECIFICATIONS AND BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS CONTAINED THEREIN. THE SUBMISSION OF HIS BID SHALL INDICATE SUCH KNOWLEDGE.
- ELECTRICAL DRAWINGS ARE DIAGNAMATIC. THEY ARE INTENDED TO SHOW THE APPROXIMATE LOCATIONS OF EQUIPMENT AND CONDUIT. DIMENSIONS GIVEN ON THE PLANS, IN FIGURES, SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS AND SHALL BE VERIFIED IN THE FIELD. THE ELECTRICAL CONTRACTOR SHALL LAYOUT ALL EQUIPMENT ROOMS TO MAKE SURE THE EQUIPMENT, AS PURCHASED, FITS IN THE ROOM OR SPACE SHOWN. EXACT LOCATION OF ALL EQUIPMENT SHALL BE VERIFIED IN THE FIELD AND ROUTING OF CONDUITS SHALL SUIT FIELD CONDITIONS.
- UNTIL THE TIME OF INSTALLATION, THE ARCHITECT RESERVES THE RIGHT TO MAKE ANY CHANGES IN THE LOCATION OF CONDUIT AND EQUIPMENT WITHOUT ADDITIONAL COST TO THE CONTRACT.
- THE ELECTRICAL DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER. MATERIAL AND LABOR NECESSARY TO THE PROJECT SHALL BE FURNISHED AND INSTALLED EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH. LABOR AND/OR MATERIALS NEITHER SHOWN NOR SPECIFIED BUT OBVIOUSLY NECESSARY FOR THE COMPLETION AND PROPER FUNCTIONING OF THE SYSTEM SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- ARRANGE ALL EQUIPMENT SUBSTANTIALLY AS SHOWN ON THE DRAWINGS. MAKE DEVIATIONS ONLY WHERE NECESSARY TO AVOID INTERFERENCE. CHECK ALL EQUIPMENT SIZES AGAINST AVAILABLE SPACE PRIOR TO SHIPMENT TO AVOID INTERFERENCE.
- EXAMINE THE WORK OF OTHER TRADES INsofar AS THEIR WORK COMES IN CONTACT WITH OR IS COVERED BY THIS WORK. MAKE NO CASE ATTACH TO, OR FINISH AGAINST ANY DEFECTIVE WORK OR INSTALLATION OF THE WORK OF OTHER TRADES.
- ELECTRICAL CONTRACTOR SHALL VERIFY WITH OTHER TRADES ALL ELECTRICAL CHARACTERISTICS OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. CONTRACTOR SHALL VERIFY VOLTAGE, PHASE AND DISCONNECTING MEANS AND OVERLOAD PROTECTION FOR ALL EQUIPMENT, UNLESS FURNISHED INTERIOR WITH EQUIPMENT PACKAGE.
- IT IS THE INTENT OF THESE DRAWINGS THAT THIS BE A COMPLETE ELECTRICAL JOB, ANY ERRORS OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BIDDING THE JOB.

- VISIT TO THE SITE
THIS CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING HIS WORK. THE SUBMISSION OF HIS PROPOSAL SHALL INDICATE SUCH KNOWLEDGE. NO ADDITIONAL PAYMENT SHALL BE MADE ON CLAIMS THAT ARISE FROM A LACK OF KNOWLEDGE OF THE EXISTING CONDITIONS.
- CODE AND PERMIT
INSTALLATION SHALL BE IN FULL ACCORDANCE WITH ALL CODES, RULES AND REGULATIONS OF MUNICIPAL, CITY, COUNTY, STATE AND PUBLIC UTILITIES AND ALL OTHER AUTHORITIES HAVING JURISDICTION OVER THE PREMISES.
- COMPLY WITH ANY SPECIFICATION REQUIREMENTS THAT ARE IN EXCESS BUT NOT IN CONFLICT WITH CODE REQUIREMENTS.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, PLAN REVIEWS AND CERTIFICATES OF INSPECTION IN CONNECTION WITH HIS WORK. REQUIRED BY THE FOREGOING AUTHORITIES BEFORE FINAL PAYMENT OF THE CONTRACT IS ALLOWED, ALL CONTRACTS SHALL BE DELIVERED TO THE ARCHITECT IN DUPLICATE.
- ELECTRICAL MATERIAL AND EQUIPMENT SHALL BEAR THE UL LABEL EXCEPT WHERE UL DOES NOT LABEL SUCH TYPES OF MATERIAL AND EQUIPMENT.

- SHOP DRAWINGS SUBMITTALS
THE ELECTRICAL CONTRACTOR SHALL SUBMIT FIVE (5) SETS OF SHOP DRAWINGS, THE SHOP DRAWINGS OF THE FOLLOWING EQUIPMENT USING THE INDICATED NUMBERING SYSTEM AND TITLES, SHALL BE SUBMITTED THROUGH THE ARCHITECT TO THE ENGINEER AND THEN RESUBMITTED FOR FINAL APPROVAL. IF NECESSARY, SHOP DRAWINGS SHALL BE SUBMITTED FOR THE FOLLOWING ITEMS:
A. WIRING DEVICES
B. CONTRACTORS, TIME SWITCHES AND PHOTOCELL LIGHTING FIXTURES
C. ALL SUBMITTED SHOP DRAWINGS (MANUFACTURER'S EQUIPMENT DESCRIPTIVE SHEETS OR VENDORS' PREPARED DRAWINGS) SHALL HAVE THE GENERAL CONTRACTORS OR SUBCONTRACTORS' STAMP OF APPROVAL, INDICATING THAT THE ITEM SUBMITTED IS AS CALLED FOR ON THE PLANS AND MEETS THE SPECIFICATIONS, IS APPROVED BY THE GENERAL CONTRACTOR OR SUBCONTRACTOR, THE DATE OF APPROVAL, AND INITIALED BY THE PERSON APPROVING THE SUBMITTAL AND THE NAME OF THE COMPANY SUBMITTING SAID EQUIPMENT FOR APPROVAL.
- SUBMIT BOUND BROCHURES COMPLETE WITH A TABLE OF CONTENTS LOOSE OR STAPLED TOGETHER. SHEETS ARE NOT ACCEPTABLE. ANY SUBMITTALS NOT IN BROCHURE FORM OR NOT AS SPECIFIED SHALL BE RETURNED AT THE CONTRACTOR'S EXPENSE FOR RESUBMITTAL.
- ALL DESCRIPTIVE LITERATURE SHALL BE SUBMITTED IN A THREE (3) HOLE BROCHURE WITH A COVER IDENTIFYING THE FOLLOWING:
A. NAME OF THE JOB
B. LOCATION OF THE JOB, ADDRESS, CITY AND STATE
C. NAME AND ADDRESS OF THE COMPANY SUBMITTING THE BROCHURES.
D. DATE OF THE SUBMITTAL
- EVERY EFFORT SHALL BE MADE IN CHECKING THE SHOP DRAWINGS, TO DETECT AND CORRECT ALL ERRORS, OMISSIONS AND INADEQUACIES. FAILURE TO DO THIS WILL NOT RELIEVE THE ELECTRICAL CONTRACTOR OF THE RESPONSIBILITY FOR THE PROPER AND COMPLETE INSTALLATION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

- AS-BUILT DRAWINGS
1. SUBMIT TO THE ARCHITECT ONE SET OF REPRODUCIBLE (MYLAR) ELECTRICAL DRAWINGS SHOWING THE AS-BUILT CONDITIONS.

STANDARDS AND SUBSTITUTIONS

- WHEREVER THE WORDS "APPROVED BY," "APPROVED EQUAL," "AS DIRECTED" OR SIMILAR PHRASES ARE USED IN THE FOLLOWING SPECIFICATIONS, THEY SHALL BE UNDERSTOOD TO REFER TO THE OWNER AS THE APPROVING AGENCY. THE NAME OR MAKE OF ANY EQUIPMENT OR MATERIALS NAMED IN THIS SPECIFICATION (WHETHER OR NOT THE WORDS "OR APPROVED EQUAL" ARE USED) SHALL BE KNOWN AS THE "STANDARD."
- THESE SPECIFICATIONS ESTABLISH QUALITY STANDARD OF MATERIALS AND EQUIPMENT TO BE USED. BASE BID PRICE BASED UPON STANDARD SPECIFIED EQUIPMENT DESCRIBED HEREIN AND AS DETAIL ON DRAWINGS AND ASSOCIATED CONTRACT DOCUMENTS. THESE SPECIFICATIONS ARE NOT TO BE CONSIDERED PROPRIETARY. THE CONTRACTOR MAY SUBMIT INFORMATION ON MATERIALS AND MANUFACTURERS (OTHER THAN THOSE LISTED) FOR REVIEW BY THE ARCHITECT AND ENGINEER NO LATER THAN TEN (10) DAYS BEFORE BIDS ARE SUBMITTED. IN ADDITION, SAMPLES OF PROPOSED EQUIPMENT MAY BE REQUIRED TO BE SUBMITTED TO THE ENGINEER FOR REVIEW NO LATER THAN TEN (10) DAYS BEFORE BIDS ARE SUBMITTED. MANUFACTURERS OF PRODUCTS ACCEPTED BY THE ARCHITECT AND ENGINEER WILL BE LISTED IN AN ADDENDUM TO THE SPECIFICATIONS AS AN ACCEPTABLE SUBSTITUTION EQUIPMENT ACCEPTED AS DETAILED BELOW AND SHALL BE SHOWN AS A SEPARATE ADD OR DEDUCT PRICE TO BE FACTORED INTO THE BASE BID PRICE BY THE ARCHITECT AND OWNER IF ACCEPTED.
- SHALL THE CONTRACTOR PROPOSE TO FURNISH MATERIALS AND EQUIPMENT OTHER THAN THOSE SPECIFIED OR APPROVED BY ADDENDUM, SUBMIT A WRITTEN REQUEST FOR SUBSTITUTIONS TO THE ARCHITECT AT THE BID OPENING. THE REQUEST SHALL BE AN ALTERNATE TO THE ORIGINAL BID. BE ACCOMPANIED WITH COMPLETE DESCRIPTIVE (MANUFACTURER, BRAND NAME, CATALOG NUMBER, ETC.) AND TECHNICAL DATA FOR ALL ITEMS. FAILURE BY THE CONTRACTOR TO SUBMIT THE REQUISITE DOCUMENTATION DETAILED ABOVE SHALL NOT BE PRESENTED BY THE CONTRACTOR FOR CONSIDERATION. SUCH SUBSTITUTIONS WILL NOT BE CONSIDERED AFTER THE BID OPENING DATE AND SHOWN. EXACT LOCATION OF ALL EQUIPMENT SHALL BE VERIFIED IN THE FIELD AND ROUTING OF CONDUITS SHALL SUIT FIELD CONDITIONS.
- WHERE SUCH SUBSTITUTIONS ALTER THE DESIGN OR SPACE REQUIREMENTS INDICATED ON THE DRAWINGS, INCLUDE ALL RISKS OF COST FOR THE REVERSED DESIGN AND CONSTRUCTION INCLUDING COST OF ALL ALLED TRADES INVOLVED.
- ACCEPTANCE OR REJECTION OF THE PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO APPROVAL OF THE ARCHITECT AND ENGINEER. IF REQUESTED, THE CONTRACTOR SHALL SUBMIT (AT HIS COST) INSPECTION SAMPLES OF BOTH THE SPECIFIED AND PROPOSED SUBSTITUTE ITEMS.
- IN ALL CASES WHERE SUBSTITUTIONS ARE PERMITTED, THE CONTRACTOR SHALL BEAR ANY EXTRA COST OF EVALUATING THE QUALITY OF THE MATERIAL AND EQUIPMENT TO BE PROVIDED.
- TESTING AND PLACING IN SERVICE
1. ANY MATERIAL OR EQUIPMENT FAILING A TEST SHALL BE REPAIRS OR REPLACED AT THE CONTRACTOR'S EXPENSE.
2. TESTS SHALL INCLUDE THE FOLLOWING:
A. MEASURE THE LOAD ON EACH PHASE OF THE MAIN SERVICE AND EACH PHASE OF EVERY FEEDER UNDER FULL LOAD CONDITIONS.
B. MEASURE THE NO-LOAD AND FULL-LOAD VOLTAGES (PHASE TO PHASE, PHASE TO NEUTRAL, AND PHASE TO GROUND) FOR EACH PHASE OF EACH SERVICE, OF EACH SEPARATELY DERIVED SYSTEM, AND AT EACH PANELBOARD OR TRANSFORMER.
C. MEASURE THE GROUND RESISTANCE OF THE MAIN SERVICE GROUNDING ELECTRODE AND THE DERIVED SYSTEMS' GROUNDING ELECTRODE.
D. MAKE INSULATION RESISTANCE TESTS ON ALL DRY TYPE TRANSFORMERS AND MOTORS.
- INTERFERENCES
1. BEFORE THE INSTALLATION OF ANY ITEM BEGINS, THE ELECTRICAL CONTRACTOR SHALL CAREFULLY ASCERTAIN THAT IT DOES NOT INTERFERE WITH CLEARANCES FOR THE ERECTION OF FINISH BEAMS, COLUMNS, PLASTER, WALLS OR OTHER STRUCTURAL OR ARCHITECTURAL MEMBERS AS SHOWN ON THE ARCHITECTURAL DRAWINGS. IF ANY WORK IS INSTALLED AND THE ARCHITECTURAL DESIGN CANNOT BE FOLLOWED, THIS CONTRACTOR SHALL, AT HIS OWN EXPENSE, MAKE CHANGES IN HIS WORK AS DIRECTED BY THE ARCHITECT TO PERMIT THE COMPLETION OF THE ARCHITECTURAL WORK IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
2. IT SHALL BE THE DUTY OF THIS CONTRACTOR TO REPORT ANY INTERFERENCES BETWEEN HIS WORK AND THAT OF ANY OF THE OTHER CONTRACTORS AS SOON AS THEY ARE DISCOVERED. THE ARCHITECT SHALL DETERMINE WHICH EQUIPMENT WILL BE RELOCATED, REGARDLESS OF WHICH WAS INSTALLED FIRST. HIS DECISION WILL BE FINAL.
- QUALITY ASSURANCE
1. ALL PRODUCTS SHALL BE NEW AND OF THE TYPE AND QUALITY SPECIFIED, WHERE MATERIALS, EQUIPMENT, APPARATUS OR OTHER PRODUCTS ARE SPECIFIED BY MANUFACTURER, BRAND NAME, TYPE OF CATALOG NUMBER, SUCH DESIGNATION SHALL ESTABLISH THE STANDARDS OF THE DESIRED QUALITY AND STYLE. IT IS THE INTENT OF THESE SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY OF MATERIALS AND EQUIPMENT INSTALLED.

SECTION 16020 - BASIC ELECTRICAL MATERIALS AND METHODS

- NAMEPLATES
1. GENERAL: FURNISH AND MOUNT ON EACH LARGE JUNCTION BOX, SAFETY SWITCH, REMOTE CONTROL, AND ALL SIMILAR CONTROLS, A NAMEPLATE DESCRIBING THE EQUIPMENT OR EQUIPMENT CONTROLLED.
2. PROVIDE BLACK AND WHITE NAMEPLATES CONTRACTED FROM LAMINATED PHENOLIC WITH A WHITE CENTER CORE. LETTERS SHALL BE ENGRAVED IN THE PHENOLIC TO FORM WHITE LETTERS 3/8" HIGH. FASTEN THE NAMEPLATES WITH SCREWS AND AN ADHESIVE TYPE FASTENER.
- MOUNTING ACCESSORIES
1. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL ANGLE IRON, CHANNEL IRON, RODS, SUPPORTS, HANGERS, CONCRETE OR PLUMBOID REQUIRED TO INSTALL, MOUNT AND SUPPORT ANY ELECTRICAL EQUIPMENT OR DEVICE CALLED FOR ON THE PLANS.
2. SUPPORTING MATERIAL SHALL BE COMPLETE WITH HANGERS, CONNECTORS, BOLTS, CLAMPS AND NECESSARY ACCESSORIES TO MAKE A COMPLETE INSTALLATION. SUPPORTING MATERIAL SHALL BE GALVANIZED, PAINTED OR OTHERWISE SUITABLY FINISHED. PRODUCTS BY BINKLEY, STEEL CITY OR RACO WILL BE ACCEPTABLE.
- ERECTION
1. THE ELECTRICAL WORK FOR CONSTRUCTION PROPOSED SHALL CONFORM TO ALL FEDERAL (FEMA), STATE, ALL SPECIFIC SAFETY REQUIREMENTS AND THE REQUIREMENTS OF THE CURRENT EDITION OF THE NEC.
2. CHECK THE HANG AND PLUMBING SPECIFICATIONS FOR ELECTRICAL REQUIREMENTS AND INCLUDE THE SAME IN THE CONTRACT COST.
3. EQUIPMENT CONNECTIONS, SWITCHES, DISCONNECT SWITCHES, CONTROL TRANSFORMERS AND PUSHBUTTON STATIONS FOR THE EQUIPMENT FURNISHED BY THE OWNER OR UNDER A SEPARATE CONTRACT SHALL BE INSTALLED AND CONNECTED UNDER THIS DIVISION, ALL CUTTING, PATCHING, ETC.
- BACKFILLING AND CONCRETE WORK RELATED TO THIS CONTRACT WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. THIS CONTRACTOR SHALL ASSUME THE RESPONSIBILITY OF PROVIDING THE SLEEVES, CHASES AND OPENINGS NECESSARY FOR THE ELECTRICAL INSTALLATION AND FOR THEIR REPAIR IN AN ACCEPTABLE MANNER, AS DETERMINED BY THE ARCHITECT. ALL HOLES SHALL BE CORE-DRILLED, PROVIDE FIRE STOP IN ALL OPENINGS CREATED THROUGH FIRE-RATED WALLS, FLOORS OR CEILING.

- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED ACCESS PANELS NECESSARY FOR HIS WORK. COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.
- MATERIALS AND WORKMANSHIP
1. ALL WORK SHALL BE INSTALLED IN A PRACTICAL AND WORKMANLIKE MANNER, BY MECHANICS SKILLED IN THE SEVERAL TRADES AS NECESSARY.
2. ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS AND SHALL BE THE BEST OF THEIR SEVERAL KINDS UNLESS SPECIFIED OR INDICATED ON THE DRAWINGS TO THE CONTRARY.
3. DURING EACH PHASE AND AT THE COMPLETION OF THE CONSTRUCTION, THIS CONTRACTOR SHALL REMOVE ALL DEBRIS AND EXCESS MATERIALS CAUSED BY HIS WORK. HE SHALL LEAVE THE AREA OF OPERATION BROOM CLEAN.
4. ALL ELECTRICAL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OR ETL LABEL. THIS CONTRACTOR SHALL GUARANTEE HIS WORKMANSHIP AND MATERIAL (LAMPS EXCEPTED) FOR A PERIOD OF ONE YEAR FROM THE DATE OF BUILDING OPENING AND LEAVE HIS WORK IN PERFECT ORDER AT THE COMPLETION. SHOULD DEFECTS DEVELOP WITHIN THE GUARANTEE PERIOD, THE CONTRACTOR SHALL, UPON NOTICE OF THE SAME, REMEDY THE DEFECTS AND MAKE ALL DAMAGES TO OTHER WORK OR FURNISHINGS CAUSED BY THE REPAIRS CORRECTED AT HIS EXPENSE TO THE CONDITION BEFORE SUCH DAMAGE.
- SCOPE OF WORK
1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, STORAGE, UNLOADING AND PLACEMENT, TO INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS:
A. COMPLETE BRANCH CIRCUIT WIRING SYSTEM.
B. COMPLETE SITE LIGHTING FIXTURE INSTALLATION, INCLUDING ALL LAMPS.
C. TESTING OF ALL CABLES AND CIRCUIT WIRING AFTER INSTALLATION.
D. WIRING DEVICES.
E. SITE LIGHTING CONTROLS.
F. GROUNDING OF THE ELECTRICAL SYSTEM.

SECTION 16080 - GROUNDING AND BONDING

- GROUND ALL EQUIPMENT PER N.E.C.
- GROUND EACH OUTSIDE LIGHTING POLE SEPARATELY WITH ONE GROUND ROD AND A #8 GROUND WIRE.
- ALL CONDUITS SHALL CONTAIN A CODE-SIZED GROUND WIRE SIZE PER N.E.C. IN ADDITION TO THE CONDUCTORS SHOWN ON THE PLANS. WHERE CIRCUIT CONDUCTORS ARE INCREASED IN SIZE FOR VOLTAGE DROP, THE GROUND WIRE SIZE SHALL BE INCREASED PROPORTIONATELY.

SECTION 16120 - WIRE AND CABLE

- COLOR CODE CONDUCTORS (EXCEPT CONTROL AND INSTRUMENTATION CONDUCTORS) AS FOLLOWS:

	208/120 SYSTEM	480/277 SYSTEM
PHASE A	BLACK	BROWN
PHASE B	RED	ORANGE
PHASE C	BLUE	YELLOW
NEUTRAL	WHITE	GREY
GROUND	GREEN	GREEN

1. #12 AND #10 CONDUCTORS SHALL HAVE CONTINUOUS INSULATION COLOR, AS LISTED ABOVE, WHICH DO NOT HAVE CONTRASTING INSULATION COLOR BY APPLICATION OF AT LEAST TWO LAPS OF COLORLED TAPE ON EACH CONDUCTOR AT ALL POINTS OF ACCESS INCLUDING JUNCTION BOXES. COLOR TAPE SHALL BE THE EQUAL OF 3M PRODUCTS SCOTCH-IT.
2. CONDUCTORS SHALL BE SOFT ANNEALED COPPER INSULATED FOR 600 VOLTS UNLESS SPECIFICALLY INDICATED OTHERWISE. ALUMINUM CONDUCTORS ARE NOT ALLOWED ON THIS PROJECT.
3. INSULATION TYPE SHALL BE TYPE THW FOR WIRE SIZES #8 AWG AND LARGER AND THIN OR THIN FOR #10 AWG AND SMALLER. THIN SHALL NOT BE USED IN WET OR DAMP LOCATIONS.
4. FLEXIBLE COPR SHALL BE HEAVY DUTY TYPE SO WITH AN EQUIPMENT GROUND CONDUCTOR IN ADDITION TO THE CURRENT CARRYING CONDUCTORS.
5. PROVIDE #12 CONDUCTORS, UNLESS OTHERWISE INDICATED.
6. CONTROL CONDUCTORS SHALL BE #14 MINIMUM FOR NEC CLASS I AND #16 FOR NEC CLASS II.
7. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED.
8. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID.
9. INSTALL WIRING IN CONDUIT.
10. CONNECT #10 AND SMALLER WIRES WITH CONSTANT PRESSURE EXPANDABLE SPRING TYPE CONNECTORS, "SCOTCHLOCK" BY 3M OR B-JAP BY BUCHANAN.
11. CONNECT #8 AND LARGER WIRES WITH COMPRESSION CONNECTORS OR SPLICES AS MANUFACTURED BY BURNDY OR TAB.
12. INSULATE SPLICING CONNECTORS TO AT LEAST 200% OF THE WIRE INSULATION. USE PRE-STRETCHED TUBING FOR CONDUIT INSULATIONS, 3M PST FOR #2 AND LARGER CONDUCTORS.
13. PULL CONDUCTORS USING RECOGNIZED METHODS AND EQUIPMENT LEAVING AT LEAST 1/2" WIRE AT ALL JUNCTION BOXES FOR CONNECTIONS.
14. CLEANOUT EACH CIRCUIT SYSTEM BEFORE PULLING WIRE.
15. BRANCH CIRCUIT WIRE SIZES (AND CONDUITS) SHALL BE INCREASED FROM THOSE INDICATED ON THE PLANS TO PREVENT EXCESSIVE VOLTAGE DROP. BRANCH CIRCUITS SHALL BE INSTALLED WITH WIRES OF SUFFICIENT SIZE, SO THAT VOLTAGE DROP BETWEEN THE PANEL AND THE LOADS DOES NOT EXCEED LIMIT OF 3%.

- WIRE SIZES SHALL BE BASED ON THE 60 DEGREES C, AMPACITIES FOR WIRE SIZES NO. 14-1 AWG, AND 75 DEGREES C, AMPACITIES FOR WIRE SIZES #1/0 AWG AND LARGER.
2. CIRCUITS MAY BE MULTI-PHASE IN CONDUIT PROVIDED WIRE IS PROPERLY DERATED AND CONDUIT SIZED PER CODE. UNDER NO CIRCUMSTANCES SHALL MORE THAN (9) CURRENT CARRYING CONDUCTORS BE RUN IN A SINGLE CONDUIT.

SECTION 16130 - RACEWAYS AND BOXES

- RACEWAYS
1. ALL WIRE SHALL BE RUN IN ACCORDANCE WITH CODE IN CORROSION RESISTANT, RIGID, THREADED, METAL CONDUIT OR ELECTRICAL METALLIC TUBING (EMT), UNLESS OTHERWISE SPECIFICALLY STATED HEREIN.
A. CONDUIT IN EXTERIOR WALLS, BELOW FLOOR SLAB, OR UNDERGROUND SHALL BE RIGID, THREADED, GALVANIZED, HEAVY WALL TYPE.
B. CARLON PVC TYPE 40 HEAVY WALL CONDUIT WITH GROUND WIRE MAY BE USED BELOW FLOOR SLAB OR UNDERGROUND IN LEI OF RIGID, THREADED, GALVANIZED CONDUIT. PVC 40 CONDUIT SHALL NOT BE RUN IN OR ABOVE FLOOR SLAB. PVC CONDUIT SHALL TERMINATE BELOW FLOOR SLAB WITH RIGID, THREADED METAL CONDUIT ADAPTER CONDUIT ABOVE. SLAB SHALL BE METAL.
C. CONDUIT RUN EXPOSED TO THE WEATHER SHALL BE HEAVY WALL METAL THREADED TYPE.
2. CONDUIT SIZE SHALL BE 3/4" MINIMUM.
3. CONDUIT SHALL BE SECURELY FASTENED IN PLACE. ALL CONDUIT SHALL BE CONCEALED WHEREVER POSSIBLE.
4. USE WATER-TIGHT JOINTS WITH BURIED AND CONCRETE ENCASED CONDUIT. ALL BURIED CONDUITS OUTSIDE OF BUILDINGS SHALL HAVE A MINIMUM OF 24" OF COVER. METAL CONDUITS BORED IN EXISTING SHALL BE PAINTED (TWO COATS) WITH HEAVY ASPHALTUM PAINT.
5. SUPPORT RINGS OF CONDUIT AS DETAILED IN THE APPROPRIATE TABLE OF THE NATIONAL ELECTRICAL CODE (NEC).
6. INSTALL EMPTY CONDUIT FOR FUTURE USE AS INDICATED ON THE DRAWINGS. CONDUIT SHALL BE COMPLETE WITH JETLINE OR PULL ROPE. JUNCTION/OUTLET BOXES, THE RINGS AND APPROPRIATE COVER PLATES.

- THREAD LUBRICATION/SEALANT IS REQUIRED ON OUTDOOR AND UNDERGROUND THREADED METAL JOINTS.
- PULL AND JUNCTION BOXES
1. INSTALL PULL AND JUNCTION BOXES WHERE SHOWN ON THE DRAWINGS, AND WHERE REQUIRED FOR CHANGES IN DIRECTION, AT JUNCTION POINTS, AND TO FACILITATE WIRE PULLING. FURNISH BOX SIZES IN ACCORDANCE WITH NEC UNLESS LARGER BOXES ARE INDICATED.
2. PROVIDE STEEL BOXES AND REMOVABLE COVERS OF CODE CASE, MADE OF ROLLED SHEET STEEL, HOT DIPPED GALVANIZED OUTSIDE, FOR ABOVE GROUND WORK. FURNISH WEATHERPROOF BOXES WHEN INSTALLED ABOVE GROUND OUTSIDE.
3. PROVIDE CAST IRON BOXES, HOT DIPPED GALVANIZED OUTSIDE, WHERE SHOWN ON THE DRAWINGS. FURNISH REMOVABLE COVERS WITH GASKETS AND STAINLESS STEEL, BRASS OR BRONZE SCREWS.
4. PROVIDE CONCRETE BOXES FOR UNDERGROUND WORK UNLESS OTHERWISE INDICATED ON THE DRAWINGS. FURNISH STEEL FRAMES AND COVERS WITH THE COVER ATTACHED TO THE FRAME WITH HEXAGON HEAD, BRASS OR BRONZE CAP SCREWS, 3/8" AL. DIAMETER. PROVIDE A RUBBER GASKET FOR SEALING BETWEEN THE COVER AND THE FRAME. PAINT THE COVER WITH TWO COATS OF HEAVY ASPHALTUM.
- OUTLET BOXES
1. USE CAST BOXES, ZINC-CADMIUM FINISH MALLEABLE IRON, FOR EXPOSED INTERIOR WORK, AND FOR EXPOSED OR CONCEALED WORK IN WET, DAMP OR SEVERE TOY LOCATIONS. CAST BOXES SHALL BE SERIES TO BY GROUND HANDS OR APPLICTION.
2. WALL BOX SIZES (MINIMUM) SHALL BE 4" SQUARE X 2-1/2" DEEP WHERE WALL CONSTRUCTION PERMITS. WHERE WALL CONSTRUCTION DETIERS, 3/8" AL. DIAMETER. PROVIDE A RUBBER GASKET FOR SEALING BETWEEN THE COVER AND THE FRAME. PAINT THE COVER WITH TWO COATS OF HEAVY ASPHALTUM.
- WIRING DEVICES
1. WIRING DEVICE COLOR SHALL BE SELECTED BY ARCHITECT, UNLESS OTHERWISE INDICATED.
2. PROVIDE NEMA CONFIGURATION 5-20R DUPLEX 125 VOLT GROUNDING TYPE RECEPTACLES RATED FOR 20 AMPERES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
3. RECEPTACLES SHALL BE SPECIFICATION GRADE AS MANUFACTURED BY HUBBELL, PAS OR LEXTON.
4. RECEPTACLES REQUIRING AMPERAGES, VOLTAGES OR CONFIGURATIONS DIFFERENT FROM THE DUPLEX COMMENCESE RECEPTACLES ABOVE SHALL BE AS INDICATED ON THE DRAWINGS.
5. PROVIDE OTHER RECEPTACLES OF A QUALITY, MATERIAL AND WORKMANSHIP EQUAL TO THAT SPECIFIED FOR DUPLEX COMMENCESE RECEPTACLES.
6. PROVIDE COVER OR DEVICE PLATES FOR OUTLET BOXES AS FOLLOWS UNLESS OTHERWISE NOTED:
1. EXTERIOR AREAS, COPPER FREE ALUMINUM WITH GRAY, POWDER EPOXY FINISH, GASKET, WEATHERPROOF, GROUND-HINDS "W" BODY FOR DUPLEX RECEPTACLES AND WIRS FOR SINGLE RECEPTACLES OR EQUAL.
2. WHERE DEVICES ARE GANGED, THEY SHALL BE INSTALLED UNDER A COMMON COVERPLATE.

SECTION 16140 - WIRING DEVICES

- SAFETY SWITCHES SHALL BE THE ENCLOSED HEAVY-DUTY TYPE (TYPE HD) WITH QUICK-BREAK, QUICK-BREAK MECHANISM AND EXTERNAL PAD LOCKABLE OPERATING HANDLE.
2. SAFETY SWITCHES SHALL BE RATED FOR 240 OR 600 VOLTS AS APPLICABLE; THEY SHALL BE HORSEPOWER RATED WHEN USED IN MOTOR CIRCUITS.
3. SAFETY SWITCHES SHALL BE FUSIBLE OR NON-FUSIBLE 2, 3, OR 4 POLE AS INDICATED ON THE DRAWINGS.
4. SAFETY SWITCHES SHALL BE SINGLE THROW UNLESS OTHERWISE INDICATED ON DRAWINGS.
5. ENCLOSURES SHALL BE NEMA 3R OUTDOOR UNLESS OTHERWISE INDICATED ON DRAWINGS.
6. MANUFACTURER SHALL BE SQUARE D, SIEMENS, G.E., OR CUTLER-HAMMER. ALL SAFETY SWITCHES SHALL BE BY ONE MANUFACTURER.

SECTION 16491 - FUSES

- THE CONTRACTOR SHALL FURNISH A COMPLETE SET OF FUSES FOR ALL SWITCHES, PLUS FUSIBLE EQUIPMENT OTHERWISE ON PLANS. THE FUSES SHALL BE OF THE FOLLOWING TYPES:
1. FUSES 601 TO 8000 AMPS SHALL BE UL CLASS, TRADE TYPE SHALL BE KRP-C AS MANUFACTURED BY THE BUSSMANN COMPANY.
2. FUSES 1/10 TO 600 AMPS SHALL BE UL CLASS RK1. TRADE TYPE SHALL BE LOW PEAK LPS-RK (600V) AND LPM-RK (250V) AS MANUFACTURED BY BUSSMANN COMPANY.
3. ALL OTHER FUSES SHALL BE DUAL-ELEMENT CURRENT-LIMITING TYPE WITH 200,000 AMPERES SYMMETRICAL INTERRUPTING CAPACITY.
4. FUSES SHALL BE MANUFACTURED BY BUSSMANN, GOLD-SHAWMUT, OR RELIANCE.
5. SPARE FUSES AMOUNTING TO A DUPLICATE SET OF EACH SIZE INSTALLED SHALL BE TURNED OVER TO THE OWNER UPON COMPLETION OF THE PROJECT.
6. THIS CONTRACTOR SHALL RETURN ALL FUSES BLOWN DURING CONSTRUCTION.

SECTION 16511 - LIGHTING FIXTURES

- ALL LIGHTING FIXTURES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE, INCLUDING LAMPS. LAMPS SHALL BE OF SAME MANUFACTURER FOR ALL TYPES.
2. ALL FIXTURES SHALL BEAR THE UNDERWRITERS' LABORATORIES LABEL AND SHALL BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S INSTRUCTIONS.
3. HIGH INTENSITY DISCHARGE BALLASTS SHALL BE CONSTANT WATTAGE TYPE.
4. ALL FIXTURES SHALL BE UL LISTED AND APPROVED FOR THE PURPOSE INTENDED.
5. ALL ADJUSTABLE FIXTURES SHALL BE AIMED AND ADJUSTED DURING EVENING HOURS TO THE SATISFACTION OF THE ARCHITECT.

REVISIONS

OWNER / DEVELOPER: **LRC**
MANEASDOWS
DESIGN AND CONSTRUCTION CO., LLC
1300 West 25th Street, Suite 100, Massillon, OH 44862
Phone: 330.835.6888 Fax: 330.835.6922

CONTRACTOR: **AMCON**
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ISSUED FOR CONSTRUCTION
08/09/04

PROPOSED
MEADOWS PLAZA
REDEVELOPMENT
MASSILLON, OHIO

SHEET TITLE
ELECTRICAL
SPECIFICATIONS

SCALE: 1/8"=1'-0"

DATE:

E-4

1300 West 25th Street, Suite 100, Massillon, OH 44862
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