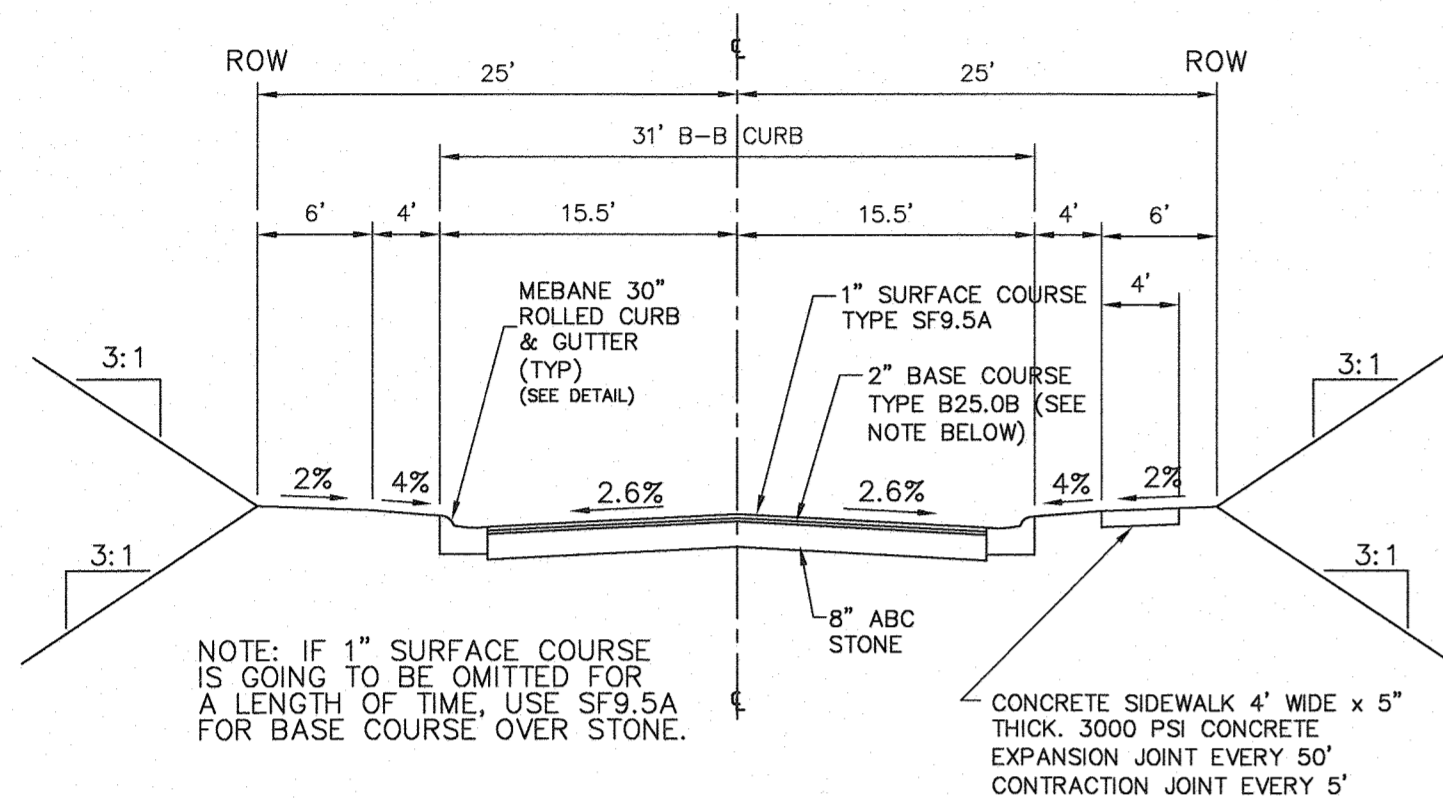
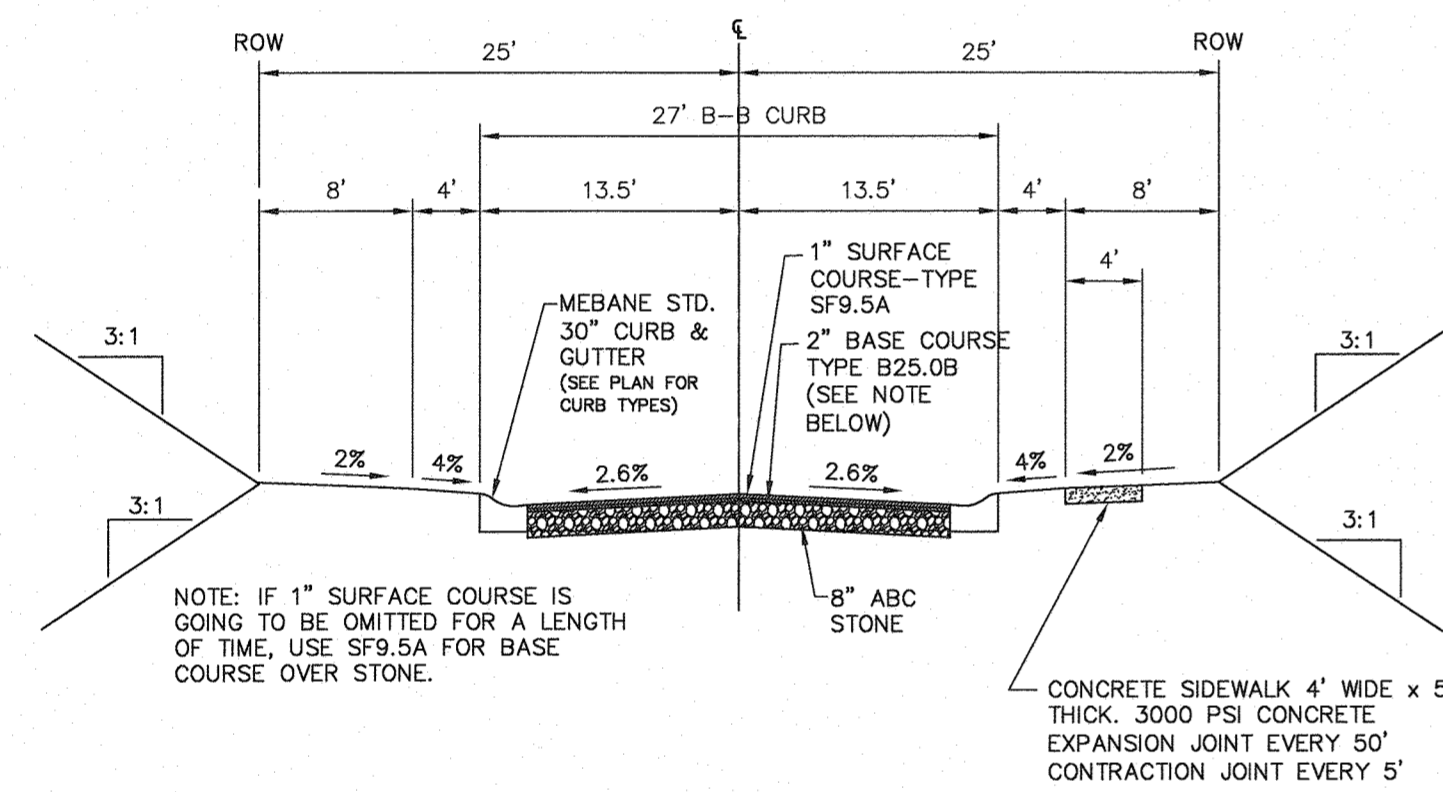


VICINITY MAP



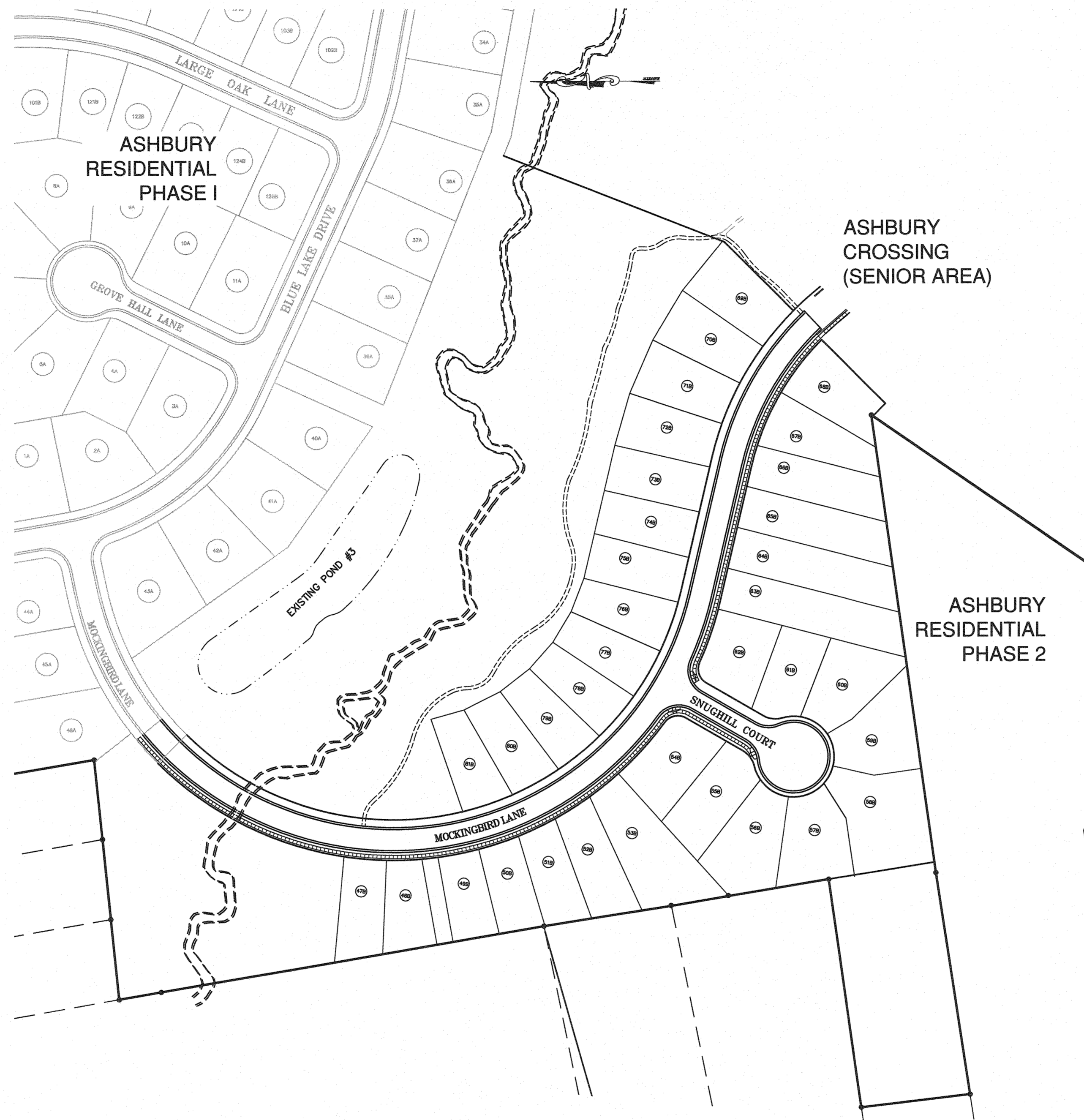
TYPICAL STREET SECTION
MOCKINGBIRD LANE
SCALE: 1"=10' HORIZONTAL



TYPICAL STREET SECTION
SNUGHILL CT.

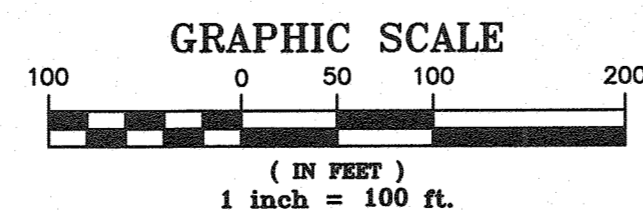
SCALE: 1"=10' HORIZONTAL
1"=5' VERTICAL
LEGEND

	NEW	EXISTING
EASEMENT	---	---
RIGHT-OF-WAY	---	---
CURB & GUTTER	---	---
EDGE OF PAVEMENT	---	---
SIDEWALK	---	---
CREEK	---	---
CATCH BASIN	■	□
YARD INLET	■	□
JUNCTION BOX	○	○
CURB INLET	○	○
SANITARY SEWER MANHOLE	○	○
SANITARY SEWER CLEANOUT	○	○
VALVE	○	○
FIRE HYDRANT	○	○
LIGHT POLE	○	○
UTILITY POLE AND GUY WIRE	○	○
UNDERGROUND CABLE TV LINE	TV	TV
UNDERGROUND ELECTRIC	E	E
OVERHEAD UTILITY LINE	OH	OH
UNDERGROUND TELEPHONE	T	T
STORM DRAIN PIPE	SD	SD
SANITARY SEWER	SS	SS
WATER LINE	W	W
TELEPHONE	T	T
FIBER OPTIC	FO	FO
GAS	G	G
FINISHED GRADE CONTOUR	400	100
SILT FENCE	SF	SF
TREE PROTECTION FENCE	TPF	TPF
DIVERSION DITCH	---	---
FINISHED GRADE SPOT ELEVATION	+386.44	+386.44
CLEARING LIMIT/TREE LINE	---	---
DITCH OR SWALE FLOWLINE	---	---
TREE PROTECTION FENCE	---	---
STONE FILTER	---	---
ELECTRICAL TRANSFORMER	---	---



ASHBURY RESIDENTIAL-PHASE 2

MEBANE, NORTH CAROLINA



ASHBURY PHASE II - INSPECTION FEES

* STREET INSPECTION FEE	1460 FT. x \$2.00 / FT = \$2,920
* WATER LINE FEE	2265 FT. x \$1.50 / FT. = \$3,397
* SEWER LINE FEE	1380 FT. x \$1.50 / FT. = \$2,070
* PUBLIC STORM SEWER FEE	1340 FT. x \$1.00 / FT. = \$1,340
* WATER SERVICES	35 x \$50.00 = \$1,750
* SEWER SERVICES	35 x \$50.00 = \$1,750
* DRIVEWAYS	35 x \$50.00 = \$1,750
TOTAL	\$14,977

NOTE: ALL FEES TO BE PAID UPON SITE PLAN APPROVAL; EXCEPT DRIVEWAY INSPECTION FEE TO BE PAID AT BUILDING PERMIT ISSUANCE.

CONSTRUCTION PLAN INDEX

- C.A1 COVER SHEET
- C.A2 SITE AND PAVING PLAN
- C.A3 UTILITY PLAN
- C.A4 UTILITY PLAN EXTENSION & WATERLINE EXTENSION
- C.A5 GRADING AND STORM DRAINAGE
- C.A6 UTILITY EXTENSION PLAN & PROFILE
- C.A7 EROSION CONTROL PLAN
- R.A1 MOCKINGBIRD LANE PLAN & PROFILE
- R.A2 MOCKINGBIRD LANE PLAN & PROFILE
- R.A3 SNUGHILL COURT
- D.A1 EROSION CONTROL DETAILS
- D.A2 EROSION CONTROL DETAILS
- D.A3 NOT USED
- D.A4 STORM DRAINAGE & SANITARY SEWER DETAILS
- D.A5 WATER SERVICE DETAILS
- D.A6 SITE AND ROADWAY DETAILS

NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF MEBANE'S CONSTRUCTION STANDARDS, SPECIFICATIONS, AND PROCEDURES AND THE ORANGE COUNTY SEDIMENTATION AND EROSION CONTROL OFFICE'S STANDARDS, SPECIFICATIONS, AND PROCEDURES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING UTILITIES PRIOR TO THE BEGINNING OF DEMOLITION AND/OR CONSTRUCTION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES TO REMAIN DURING ALL CONSTRUCTION ACTIVITIES.
4. ALL FILLING OPERATIONS SHALL BE MONITORED BY A GEOTECHNICAL ENGINEER. ALL FILL MATERIAL SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER TO ASSESS ITS SUITABILITY FOR PROPER COMPACTION PRIOR TO PLACING MATERIAL ON SITE. THE GEOTECHNICAL ENGINEER SHALL PERFORM DENSITY TESTS AND REPORTS TO ENSURE MINIMUM DENSITY IS ACHIEVED. LIFT DEPTHS AND COMPACTION METHODS SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND THE PROJECT SPECIFICATIONS.
5. CONTRACTOR SHALL TAKE CARE TO MAKE SMOOTH, FLOWING TRANSITIONS TO NEW AND EXISTING ASPHALT TIES.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL MEASURES FOR ALL WORK WITHIN PUBLIC R/W PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, THE NC SUPPLEMENT TO THE MUTCD, AND LOCAL CITY INSPECTOR'S DIRECTION.
7. ANY DIFFERING FIELD CHANGES OR MODIFICATIONS FROM THESE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. CHANGES OR MODIFICATIONS SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW OR APPROVAL.
8. INFORMATION ABOUT EXISTING UNDERGROUND FACILITIES AND SUBSURFACE CONDITIONS INDICATED ON THE DRAWINGS IS BASED ON INFORMATION READILY AVAILABLE TO THE ENGINEER. THE ENGINEER HAS NOT CONDUCTED AN EXHAUSTIVE INVESTIGATION OF SUCH FACILITIES OR CONDITIONS, AND THEREFORE MAKES NO WARRANTY TO THE CONTRACTOR OR ANY OTHER PARTY REGARDING THEM. THE CONTRACTOR IS ADVISED THAT THIS INFORMATION MAY NOT BE COMPLETE, AND EXISTING UNDERGROUND FACILITIES MAY DIFFER FROM THOSE INDICATED ON THE DRAWINGS. THE CONTRACTOR IS ALSO ADVISED THAT IF DIFFERING CONDITIONS EXIST, THEY MAY BE ENCOUNTERED DURING THE COURSE OF THE PROJECT WORK, AND THEY MAY IMPACT THE PROJECT SCOPE AND TIME REQUIREMENTS.

SITE DATA

APPLICANT/OWNER: ASHBURY ASSOCIATES RESIDENTIAL
P.O. BOX 2065
CHAPEL HILL, NC 27515
TEL: (919) 240-5906
ATTN: BILL SPANG (MGR)
EMAIL: SPANGDEVCO@GMAIL.COM

PIN: 982-554-3498
ZONING: PHASE 2 - PUD R-10
(AREA 5 ASHBURY ZONING)

CURRENT USE: VACANT
PROPOSED USE: SINGLE FAMILY RESIDENTIAL

NUMBER OF PROPOSED LOTS = 35
WATERSHED: GRAHAM-MEBANE
STORM WATER COLLECTED IN POND #3
(ASHBURY PHASE 1) - 2.65 AC.
(ASHBURY PHASE 2) - 3.72 AC.

TOTAL 6.37 AC.

ACREAGE: TOTAL (ASHBURY) - 140 AC.
ACREAGE TOTAL (PHASE 2) - 12.64 AC.

EXISTING IMPERVIOUS PRIOR TO PROJECT (PHASE 2): 25.5 AC.

MAXIMUM NEW IMPERVIOUS = 30% OF (TOTAL ACREAGE - EXIST IMPERVIOUS) =
= .3 x (140-25.5) = 34.35 AC

TOTAL IMPERVIOUS ALLOWED = EXISTING + MAXIMUM PROPOSED
25.5 + 34.35 = 59.85 AC

PROPOSED IMPERVIOUS (PHASE 2): 3.72 AC.

IMPERVIOUS AREA SUMMARY -
ROOFS AND DRIVES (35 LOTS x 3100 SQ FT) = 2.50 AC.
ROADWAY AND SIDEWALK 1.23 AC.

TOTAL 3.72 AC.

DISTURBED AREA (GRADING) 9.8 ACRES

ASHBURY DEVELOPMENT PROJECT SUMMARY
RESIDENTIAL IMPERVIOUS 32.94 AC.

PHASE 1 29.22
PHASE 2 3.72

APARTMENT/POOL AREA 8.5 AC.
SENIOR AREA 6.92 AC.
COMMERCIAL AREA 4.51 AC.

TOTAL IMPERVIOUS 52.87 AC

IMPERVIOUS SUMMARY
MAXIMUM IMPERVIOUS ALLOWED -- 59.85 AC
UTILIZED -- 52.87 AC



Know what's below.
Call before you dig.
(Or call: 1-800-632-4949)

CIVIL CONSULTANTS, INC.
Civil Engineers
Land Development Consultants
3708 Lyleham Parkway, Suite 201, Durham, NC 27707
PH: (919) 400-1645 Fax: (919) 405-6536 www.civil-consultants.com



ASHBURY - PHASE 2
MEBANE, NORTH CAROLINA

COVER SHEET

REV.	DATE	DESCRIPTION	BY
1	1-24-08	PER CITY COMMENTS	KPG
2	5-1-08	PER NCDOT COMMENTS	KPG
3	7-11-14	REVISED LOT LAYOUT	KPG
4	09-19-14	REV. GRADING/EROSION CONTROL DTL.	DTR
5	10-14-14	PER CITY OF MEBANE COMMENT	KPG
6	1-12-16	PER CITY COMMENT	KPG
7	7-21-16	REVISED PER CITY COMMENT	KPG

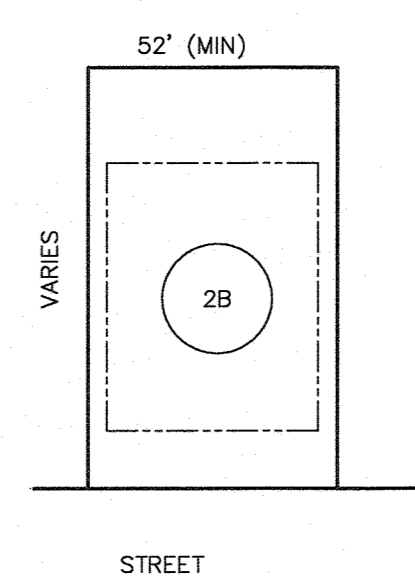
DATE: SEPTEMBER 10, 2007
HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: N/A
PROJECT MANAGER: 10022
DRAWN BY: FJE
PROJECT NO.: KPG
DRAWING NAME: 10022-CD

THIS DRAWING AND THE DESIGN HEREON ARE THE PROPERTY OF CIVIL CONSULTANTS, INC. THE INFORMATION ON THIS DRAWING IS NOT FOR USE ON ANY OTHER SITE OR PROJECT. THE REPRODUCTION OR OTHER USE OF THIS DRAWING IN WHOLE OR IN PART, WITHOUT WRITTEN CONSENT OF CIVIL CONSULTANTS, INC. IS PROHIBITED.
COPYRIGHT 2003 CIVIL CONSULTANTS, INC.

SHEET NO.
C.A1
CONSTRUCTION PHASE 2

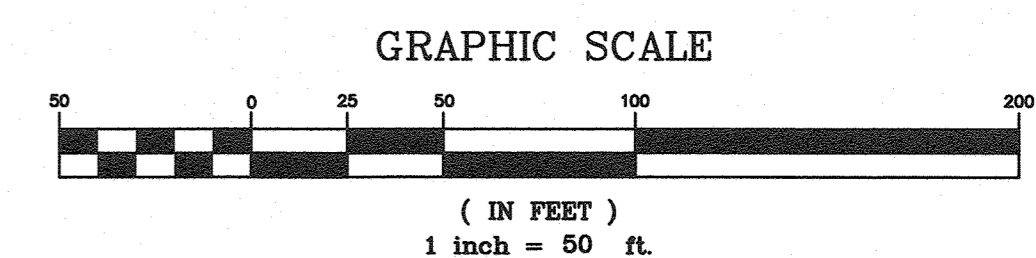


- NOTES:
- FOR EXISTING GRADES AND PROFILES SEE SHEETS R.A.1, R.A.2 AND R.A.3.
 - ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL CITY OF MEBANE SPECIFICATIONS AND STANDARD DETAILS, LATEST EDITION.
 - 30" CONCRETE CURB AND GUTTER. USE REVERSE-PITCH WHERE ADJACENT PAVEMENT SLOPES AWAY FROM CURB. USE STANDARD-PITCH OTHERWISE. SEE DETAILS, SHEET D.A.6. ALL DIMENSIONS SHOWN ARE TO BACK OF CURB. ALL BACK OF CURB RADII ARE 3.0' UNLESS OTHERWISE SHOWN.
 - CONCRETE SIDEWALKS SHALL BE 4' WIDE ALONG RESIDENTIAL STREETS. SIDEWALKS LOCATED IN THE SINGLE FAMILY RESIDENTIAL SHALL BE INSTALLED BY BUILDERS PRIOR TO OBTAINING C.O. FOR HOUSE CONSTRUCTION; OR DEVELOPER WILL INSTALL WITHIN 1 YEAR OF FINAL PLAT RECORDATION (OR WHICHEVER COMES FIRST).
 - SHADED AREA DENOTE WETLANDS AS NOTED BY USCOE AND ARE TO BE LEFT UNDISTURBED.
 - STOP SIGN ON METAL POST (MUTCD R1.1)
 - 10'-FEET PRIVATE DRAINAGE EASEMENTS TO BE MAINTAINED BY HOME OWNERS ASSOCIATION (HOA).

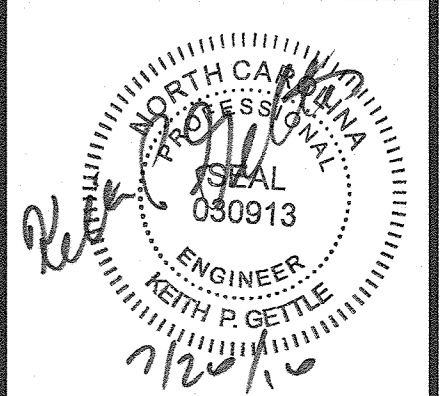


DWELLING: SINGLE FAMILY HOME
 AVERAGE LOT SIZE: (VARIES)
 NUMBER OF PROPOSED LOTS: 35
 SETBACKS: FRONT - 15 FEET
 SIDE - 10 FEET AGGREGATE
 REAR - 25 FEET
 IMPERVIOUS SURFACE - MAX 3100 SF

'SINGLE FAMILY' LOT



CIVIL CONSULTANTS, INC.
 Civil Engineers
 Land Development Consultants
 3708 Luchon Parkway, Suite 201, Durham, NC 27707
 PH: (919) 490-1645 Fax: (919) 403-0336
 www.civil-consultants.com



ASHBURY - PHASE 2
 MEBANE, NORTH CAROLINA
SITE AND PAVING

REV.	DATE	DESCRIPTION	PER CITY COMMENTS	KPG	TEXT MODIFICATION	KPG	REVISED LOT LAYOUT	KPG	PER CITY OF MEBANE COMMENT	KPG	PER CITY COMMENT	KPG	REVISED PER CITY COMMENT	KPG
1	1-24-08													
2	5-4-08													
3	7-4-14													
4	10-14-14													
5	1-12-16													
6	7-21-16													

DATE: SEPTEMBER 10, 2007
 HORIZONTAL SCALE: 1"=50'
 VERTICAL SCALE: N/A
 PROJECT MANAGER: 10022
 DRAWN BY: RJE
 PROJECT NO.: KPG
 DRAWING NAME: 10022-CD

THIS DRAWING AND THE DESIGN HEREON ARE THE PROPERTY OF CIVIL CONSULTANTS, INC. THE INFORMATION ON THIS DRAWING IS NOT FOR USE ON ANY OTHER SITE OR PROJECT. THE REPRODUCTION OR OTHER USE OF THIS DRAWING IN WHOLE OR IN PART, WITHOUT WRITTEN CONSENT OF CIVIL CONSULTANTS, INC. IS PROHIBITED.
 COPYRIGHT 2003 CIVIL CONSULTANTS, INC.


811
 Know what's below.
 Call before you dig.
 (Or call: 1-800-632-4949)

SHEET NO.
C.A2
 CONSTRUCTION PHASE 2




- UTILITY NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES TO REMAIN DURING ALL CONSTRUCTION ACTIVITIES.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF MEANE'S STANDARD SPECIFICATIONS AND DETAILS FOR WATER, SEWER AND STREET IMPROVEMENTS.
 - ALL 12" WATER MAINS SHALL MAINTAIN A MIN. COVER OF 48", 8" WATER MAIN SHALL HAVE MINIMUM COVER OF 36". ALL WATER LINE TO BE DUCTILE IRON PIPE CLASS 50.
 - REFER TO PROJECT SPECIFICATIONS FOR DETAILED PIPE MATERIAL TECHNICAL DESCRIPTIONS.
 - ALL FITTINGS AT BENDS AND INTERSECTIONS IN WATER LINES SHALL BE RESTRAINED WITH MEGALUG FITTINGS AND/OR HAVE 4000 PSI CONCRETE BLOCKING PER CITY STANDARDS (AS SHOWN ON DETAIL SHEET D.A5).
 - CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL MEASURES FOR ALL WORK WITHIN PUBLIC R/W PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, THE N.C. SUPPLEMENT TO THE MUTCD, AND LOCAL CITY INSPECTOR'S DIRECTION.
 - CONTRACTOR SHALL NOTIFY THE LOCAL FIRE DEPARTMENT AT LEAST 24 HOURS BEFORE ANY STREET IS BLOCKED BY THE OPENING OF A TRENCH. THE FIRE DEPARTMENT SHALL ALSO BE NOTIFIED WHEN THE STREET IS AGAIN OPENED FOR TRAFFIC.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH UTILITY SERVICE PROVIDERS TO PROVIDE UTILITY SERVICE DEMANDS AT LOCATIONS AS REQUIRED.
 - MAINTAIN MINIMUM VERTICAL CLEARANCES BETWEEN PIPES AS FOLLOWS:
 - A. WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWER. IF CONDITIONS PREVENT SEPARATION THEN (1) THE WATER MAIN IS LAID IN A SEPARATE TRENCH WITH THE BOTTOM ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER OR, (2) THE WATER MAIN IS LAID IN THE SAME TRENCH LOCATED ON ONE SIDE ON A BENCH OF UNDISTURBED EARTH, WITH THE BOTTOM OF THE WATER MAIN 18" ABOVE THE TOP OF THE SEWER.
 - B. WATER MAIN CROSSING OVER SEWER—MINIMUM OF 18" OF VERTICAL CLEARANCE UNLESS CONDITIONS PREVENT THE SEPARATION, IN WHICH CASE BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS METALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET BEYOND EACH SIDE OF THE CROSSING.
 - C. WATER MAIN CROSSING UNDER SEWER—WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS METALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET BEYOND EACH SIDE OF THE CROSSING.
 - D. WATER & STORM DRAINAGE PIPE SHALL BE SEPARATED BY A MINIMUM OF 12".
 - E. SEWER & STORM DRAINAGE PIPE SHALL BE SEPARATED BY A MINIMUM OF 24".
 - NATURAL GAS TO BE LOCATED BETWEEN SIDEWALK AND CURB AND GUTTER.
 - TELEPHONE TO BE LOCATED IN 10' UTILITY EASEMENT.
 - CABLEVISION IN RIGHT-OF-WAY BEHIND SIDEWALK.
 - ELECTRIC UNDERGROUND IN 10' UTILITY EASEMENT.
 - NO OPEN BURNING SHALL BE ALLOWED ON SITE.

- COORDINATION NOTES:**
- COORDINATE THE UTILITY IMPROVEMENTS SHOWN HEREON WITH STORM DRAINAGE IMPROVEMENTS AND UTILITY SERVICES SHOWN ON OTHER SHEETS.
 - SEE SHEETS R.A1, R.A2 AND R.A3 FOR CONSOLIDATED VIEW OF STORM DRAINAGE AND UTILITY WORK IN STREET AREAS.



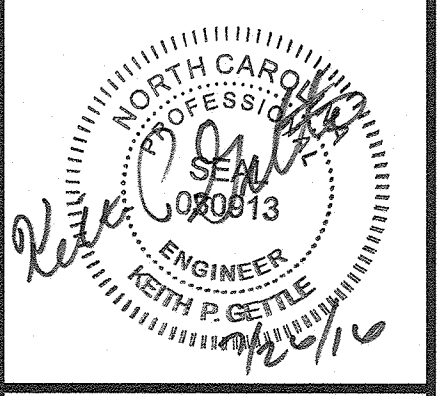
**Know what's below.
Call before you dig.**
(Or call: 1-800-632-4949)

GRAPHIC SCALE



(IN FEET)
1 inch = 50 ft.

CIVIL CONSULTANTS, INC.
Civil Engineers
Land Development Consultants
3708 Luckan Parkway, Suite 201, Durham, NC 27707
PH: (919) 490-1645 Fax: (919) 403-0336
www.civil-consultants.com



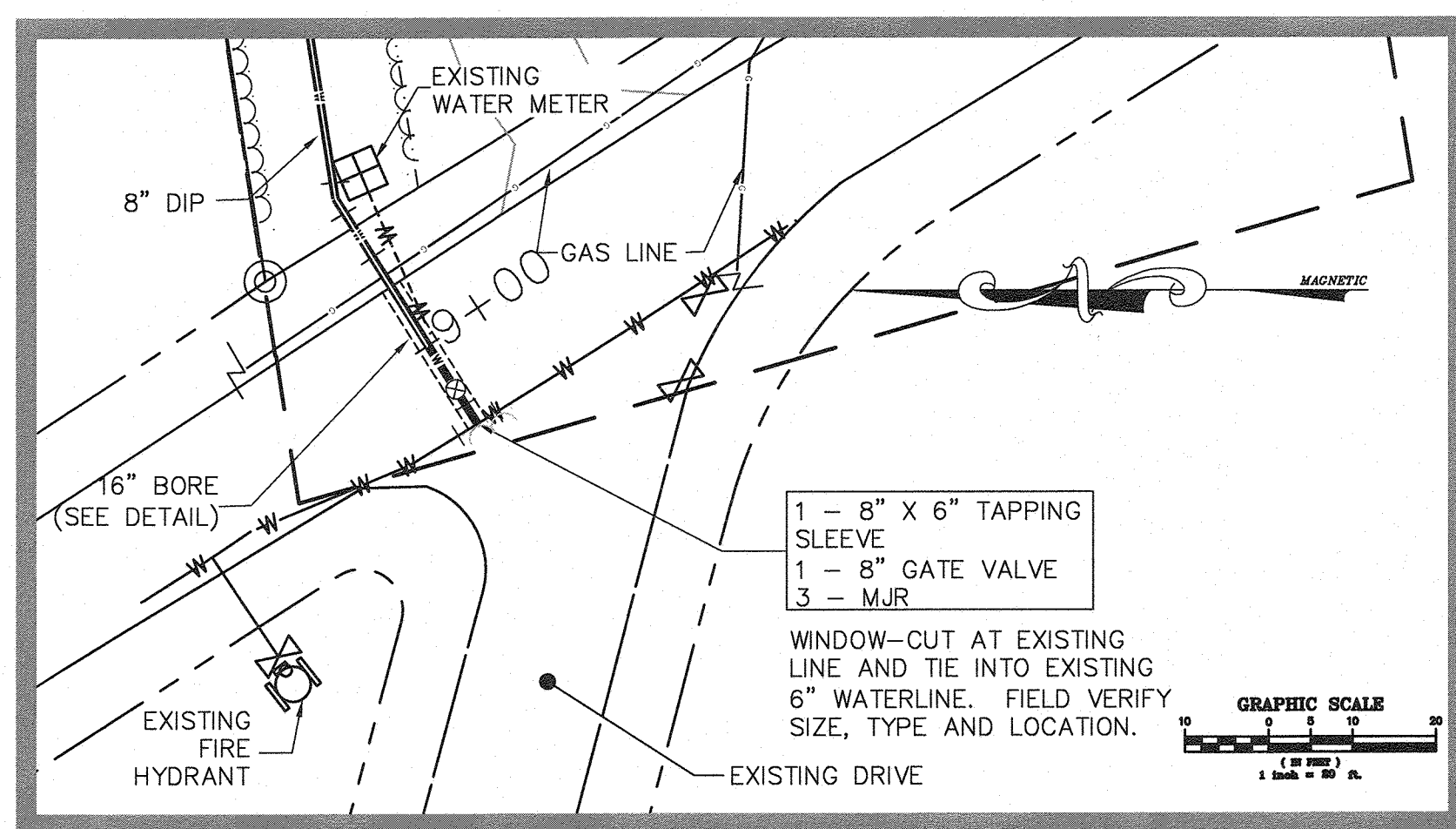
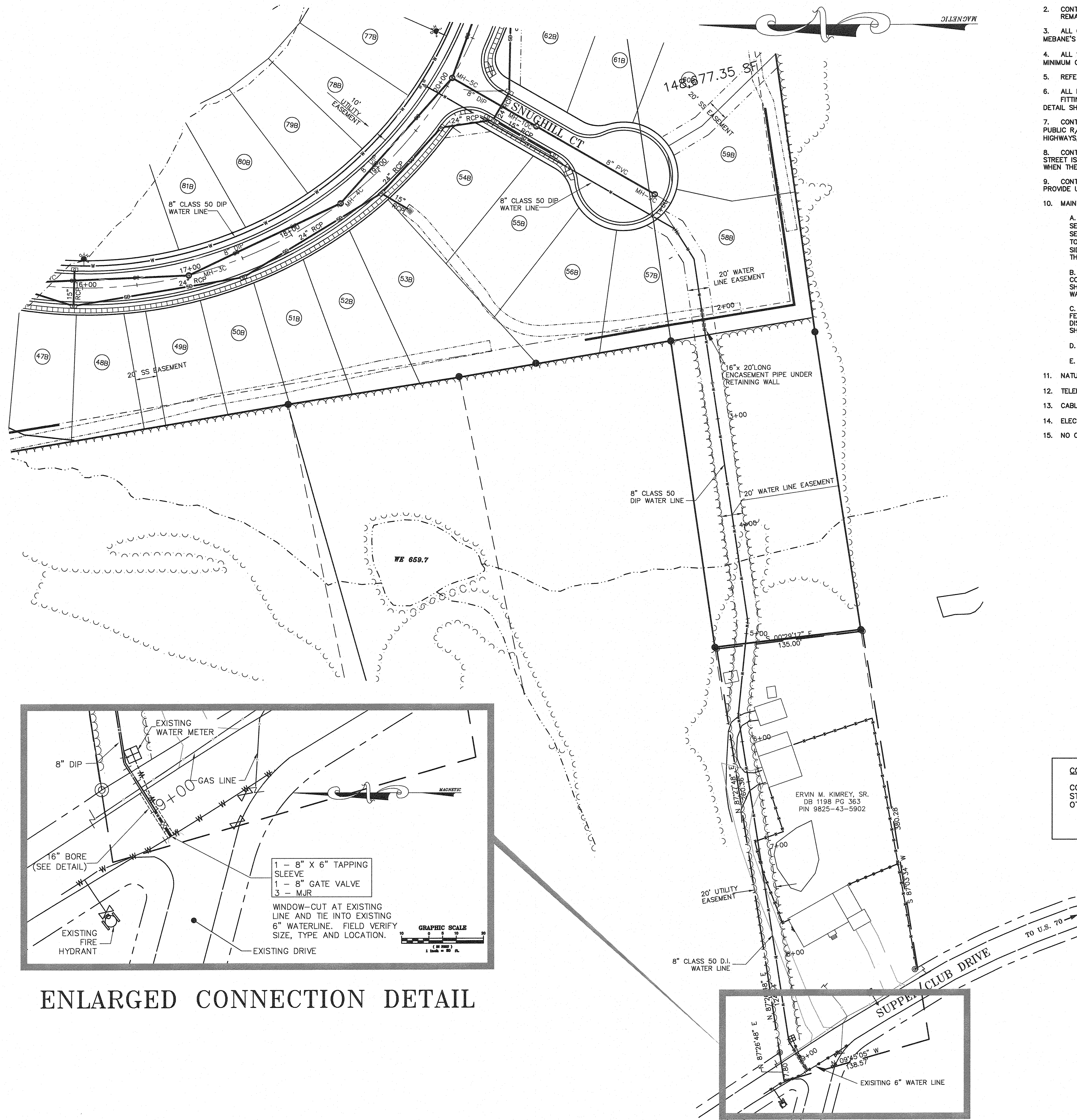
ASHBURY - PHASE 2
MEANE, NORTH CAROLINA
UTILITY PLAN

REV.	DATE	DESCRIPTION	BY
1	1-24-08	PER CITY COMMENTS	KFG
2	5-1-08	TEXT MODIFICATION	KFG
3	6-24-14	REVISED LOT LAYOUT	KFG
4	10-14-14	PER CITY OF MEANE COMMENT	KFG
5	1-12-16	PER CITY COMMENT	KFG
6	7-21-16	REVISED PER CITY COMMENT	KFG

DATE: SEPTEMBER 10, 2007
 HORIZONTAL SCALE: 1"=50'
 VERTICAL SCALE: N/A
 PROJECT MANAGER: 10022
 DRAWN BY: RLF
 PROJECT NO.: KFG
 DRAWING NAME: 10022-CD

THIS DRAWING AND THE DESIGN HEREON ARE THE PROPERTY OF CIVIL CONSULTANTS, INC. THE INFORMATION ON THIS DRAWING IS NOT FOR USE ON ANY OTHER SITE OR PROJECT. THE REPRODUCTION OR OTHER USE OF THIS DRAWING IN WHOLE OR IN PART, WITHOUT WRITTEN CONSENT OF CIVIL CONSULTANTS, INC. IS PROHIBITED.
 COPYRIGHT 2003 CIVIL CONSULTANTS, INC.

SHEET NO.
C.A3
CONSTRUCTION PHASE 2



ENLARGED CONNECTION DETAIL

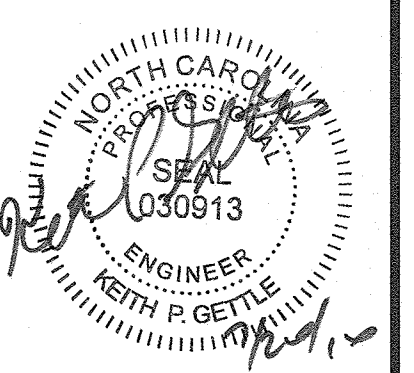
- UTILITY NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES TO REMAIN DURING ALL CONSTRUCTION ACTIVITIES.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF MEBANE'S STANDARD SPECIFICATIONS AND DETAILS FOR WATER, SEWER AND STREET IMPROVEMENTS.
 - ALL 12" WATER MAINS SHALL MAINTAIN A MIN. COVER OF 48". 8" WATER MAIN SHALL HAVE MINIMUM COVER OF 36". ALL WATER LINE TO BE DUCTILE IRON PIPE CLASS 50.
 - REFER TO PROJECT SPECIFICATIONS FOR DETAILED PIPE MATERIAL TECHNICAL DESCRIPTIONS.
 - ALL FITTINGS AT BENDS AND INTERSECTIONS IN WATER LINES SHALL BE RESTRAINED WITH MEGALUG FITTINGS AND/OR HAVE 4000 PSI CONCRETE BLOCKING PER CITY STANDARDS (AS SHOWN ON DETAIL SHEET D.A5).
 - CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL MEASURES FOR ALL WORK WITHIN PUBLIC R/W PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, THE N.C. SUPPLEMENT TO THE MUTCD, AND LOCAL CITY INSPECTOR'S DIRECTION.
 - CONTRACTOR SHALL NOTIFY THE LOCAL FIRE DEPARTMENT AT LEAST 24 HOURS BEFORE ANY STREET IS BLOCKED BY THE OPENING OF A TRENCH. THE FIRE DEPARTMENT SHALL ALSO BE NOTIFIED WHEN THE STREET IS AGAIN OPENED FOR TRAFFIC.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH UTILITY SERVICE PROVIDERS TO PROVIDE UTILITY SERVICE DEMANDS AT LOCATIONS AS REQUIRED.
 - MAINTAIN MINIMUM VERTICAL CLEARANCES BETWEEN PIPES AS FOLLOWS:
 - A. WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWER. IF CONDITIONS PREVENT SEPARATION THEN (1) THE WATER MAIN IS LAID IN A SEPARATE TRENCH WITH THE BOTTOM ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER OR, (2) THE WATER MAIN IS LAID IN THE SAME TRENCH LOCATED ON ONE SIDE ON A BENCH OF UNDISTURBED EARTH, WITH THE BOTTOM OF THE WATER MAIN 18" ABOVE THE TOP OF THE SEWER.
 - B. WATER MAIN CROSSING OVER SEWER—MINIMUM OF 18" OF VERTICAL CLEARANCE UNLESS CONDITIONS PREVENT THE SEPARATION, IN WHICH CASE BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS METALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET BEYOND EACH SIDE OF THE CROSSING.
 - C. WATER MAIN CROSSING UNDER SEWER—WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS METALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET BEYOND EACH SIDE OF THE CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.
 - D. WATER & STORM DRAINAGE PIPE SHALL BE SEPARATED BY A MINIMUM OF 12".
 - E. SEWER & STORM DRAINAGE PIPE SHALL BE SEPARATED BY A MINIMUM OF 12".
 - NATURAL GAS TO BE LOCATED BETWEEN SIDEWALK AND CURB AND GUTTER.
 - TELEPHONE TO BE LOCATED IN 10' UTILITY EASEMENT.
 - CABLEVISION IN RIGHT-OF-WAY BEHIND SIDEWALK.
 - ELECTRIC UNDERGROUND IN 10' UTILITY EASEMENT.
 - NO OPEN BURNING SHALL BE ALLOWED ON SITE.

COORDINATION NOTE:
 COORDINATE THE UTILITY IMPROVEMENTS SHOWN HEREON WITH STORM DRAINAGE IMPROVEMENTS AND UTILITY SERVICES SHOWN ON OTHER SHEETS.

811
 Know what's below.
 Call before you dig.
 (Or call: 1-800-632-4949)

GRAPHIC SCALE
 (IN FEET)
 1 inch = 50 ft.

CIVIL CONSULTANTS, INC.
 Land Development Consultants
 Civil Engineers
 3708 Lylean Parkway, Suite 201, Durham, NC 27707
 PH: (919) 490-1645 Fax: (919) 403-0336
 www.civil-consultants.com



ASHBURY - PHASE 2
 MEBANE, NORTH CAROLINA
UTILITY PLAN
WATER LINE EXTENSION

REV.	DATE	DESCRIPTION	BY
1	1-24-08	PER CITY COMMENTS	KPG
2	5-1-08	REV PER NCDOT COMMENTS	KPG
3	7-11-14	REVISED LOT LAYOUT	KPG
4	10-14-14	PER CITY OF MEBANE COMMENT	KPG
5	1-12-16	PER CITY COMMENT	KPG
6	7-21-16	REVISED PER CITY COMMENT	KPG

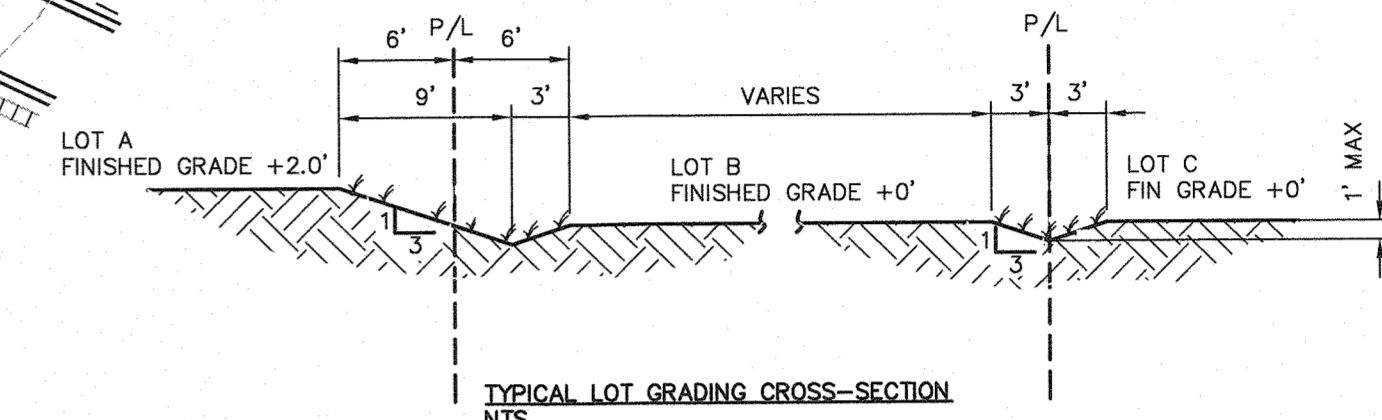
DATE: SEPTEMBER 10, 2007
 HORIZONTAL SCALE: 1"=50'
 VERTICAL SCALE: N/A
 PROJECT MANAGER: 10022
 DRAWN BY: RJE
 PROJECT NO.: KPG
 DRAWING NAME: 10022-CD

SHEET NO.
C.A4
 CONSTRUCTION PHASE 2

STRUCTURE DATA										PIPE DATA			
Structure Number	Structure Type	Detail Number	Rim/TOC Elev	Invert In (north)	Invert In (east)	Invert In (south)	Invert In (west)	Invert Out	To	Pipe Length ft	Pipe Slope %	Design Diameter in	Pipe Material
J01	COM-CI	402	654.55	649.66	649.92			649.46	F03	141.00	0.50	30	RCP
J02	COM-CI	402	658.85	653.52	651.22			651.02	J01	219.30	0.62	24	RCP
J03	COM-CI	402	654.20		652.21			652.01	J02	158.10	0.50	24	RCP
J04	COM-CI	402	655.33		653.15			652.95	J03	149.00	0.50	24	RCP
J05	COM-CI	402	653.86					653.56	J04	81.10	0.50	24	RCP
J06	COM-CI	402	651.12	654.85	654.95			654.85	J13	100.00	0.60	15	RCP
J07	COM-CI	402	654.72	659.92				659.71	J06	172.00	2.20	15	RCP
J08	COM-CI	402	654.72					650.25	J07	33.40	1.00	15	RCP
J09	COM-CI	402	654.55					650.25	J01	33.40	1.76	15	RCP
J10	COM-CI	402	658.85					653.85	J02	33.40	1.00	15	RCP
J11	COM-CI	(2)403	661.80	654.10	654.40			654.00	J05	48.20	0.50	24	RCP
J12	COM-CI	402	663.20					658.00	J11	65.00	5.50	15	RCP
J13	COM-CI	402	661.80		654.35			654.25	J11	29.40	0.50	18	RCP
J14	COM-CI	402	661.12					656.56	J06	33.40	1.00	15	RCP
J15	FES		659.50					659.00	J16	137.00	1.00	24	RCP
J16	JB		661.20				657.90	654.50	J17	28.00	1.00	24	RCP
J17	JB		661.50				654.30	654.20	J18	133.00	3.20	24	RCP
J18	FES		652.00					650.00	Apron			24	
J19	HEADWALL		643.00					638.80	J20	110.00	3.45	96	CMP
J20	FES		640.00					635.00	Apron			96	
J21	NCDOT	840.14	663.00					658.50	J04	27.00	2.00	15	RCP

RIP RAP APRON SCHEDULE:

- APRON 1 -- (CLASS B), LENGTH = 6', WIDTH = 6', DEPTH 18"
- APRON 2 -- (CLASS B), LENGTH = 12', WIDTH = 14', DEPTH 18"
- APRON 3 -- (CLASS 2), LENGTH = 50', WIDTH = 55', DEPTH = 36"



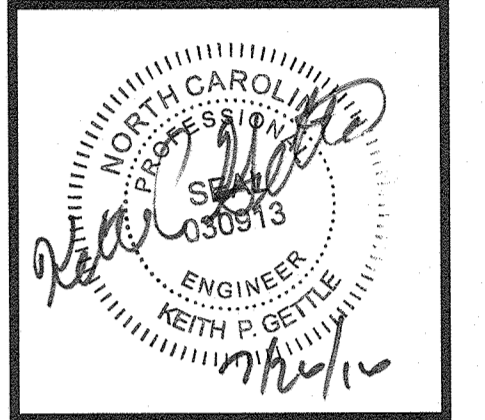
- NOTES:**
- THIS PROJECT IS SUBJECT TO THE REQUIREMENTS OF NPDES PERMIT FOR CONSTRUCTION ACTIVITIES (PERMIT NO. NCG010000). SEE SHEET D.A2 FOR SOME OF THE RELATED OBLIGATIONS.
 - FINE GRADING AND SWALES BETWEEN LOTS TO PREVENT STORMWATER FROM FLOWING FROM ONE PROPERTY TO ANOTHER SHALL BE THE RESPONSIBILITY OF THE HOME BUILDER. CONTRACTOR TO INSTALL SWALES BETWEEN LOTS ACCORDING TO THE "LOT GRADING CROSS-SECTION" SHOWN ABOVE. HOME BUILDER TO RESTORE SWALES ACCORDING TO "LOT GRADING CROSS-SECTION" UPON COMPLETION OF THE HOME.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING UTILITIES PRIOR TO THE BEGINNING OF DEMOLITION AND/OR CONSTRUCTION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION ALL EXISTING UTILITIES TO REMAIN DURING ALL CONSTRUCTION ACTIVITIES.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST NCDOT SPECIFICATIONS AND PER NCDOT INSPECTOR.
 - ALL CONSTRUCTION TO COMPLY WITH NCDOT PERMIT REQUIREMENTS.
 - INFORMATION ABOUT EXISTING UNDERGROUND FACILITIES AND SUBSURFACE CONDITIONS INDICATED ON THE DRAWINGS IS BASED ON INFORMATION READILY AVAILABLE TO THE ENGINEER. THE ENGINEER HAS NOT CONDUCTED AN EXHAUSTIVE INVESTIGATION OF SUCH FACILITIES OR CONDITIONS, AND THEREFORE MAKES NO WARRANTY TO THE CONTRACTOR OR ANY OTHER PARTY REGARDING THEM. THE CONTRACTOR IS ADVISED THAT THIS INFORMATION MAY NOT BE COMPLETE, AND EXISTING UNDERGROUND FACILITIES AND MAY DIFFER FROM THOSE INDICATED ON THE DRAWINGS. THE CONTRACTOR IS ALSO ADVISED THAT IF DIFFERING CONDITIONS EXIST, THEY MAY BE ENCOUNTERED DURING THE COURSE OF THE PROJECT WORK, AND THEY MAY IMPACT THE PROJECT SCOPE AND TIME REQUIREMENTS.
 - CONTRACTOR SHALL VERIFY AND COORDINATE EXACT POSITIONING OF STORM DRAINAGE PIPING AND STRUCTURES, AND SHALL MAKE ADJUSTMENTS AS NEEDED TO PROVIDE PROPER CONNECTIONS, STRUCTURE LOCATIONS, ORIENTATIONS, DIMENSIONS, ELEVATIONS, FRAME PLACEMENT, AND SURFACE DRAINAGE. PIPE LENGTHS SHOWN ARE APPROXIMATE, AND CONNECTION POINTS TO STRUCTURES ARE SHOWN SCHEMATICALLY. REFER TO STORM DRAINAGE STRUCTURE DETAILS FOR DIMENSIONS, OFFSETS, CLEARANCES, SETBACKS FROM CURB, AND OTHER REQUIREMENTS. MODIFY STRUCTURES AS NEEDED TO ACCOMMODATE LARGE-DIAMETER PIPING, MULTIPLE PIPE PENETRATIONS, AND PIPE CONNECTION ANGLES.

- COORDINATION NOTES:**
- COORDINATE THE UTILITY IMPROVEMENTS SHOWN HEREON WITH STORM DRAINAGE IMPROVEMENTS AND UTILITY SERVICES SHOWN ON OTHER SHEETS.
 - SEE SHEETS R.A1, R.A2, AND R.A3 FOR CONSOLIDATED VIEW OF STORM DRAINAGE AND UTILITY WORK IN STREET AREAS.



GRAPHIC SCALE
 0 25 50 100 200
 (IN FEET)
 1 inch = 50 ft.

CIVIL CONSULTANTS, INC.
 Civil Engineers
 Land Development Consultants
 3708 Lyckam Parkway Suite 201 Durham, NC 27707
 P.O. (919) 496-1645 Fax: (919) 465-0556 www.civil-consultants.com



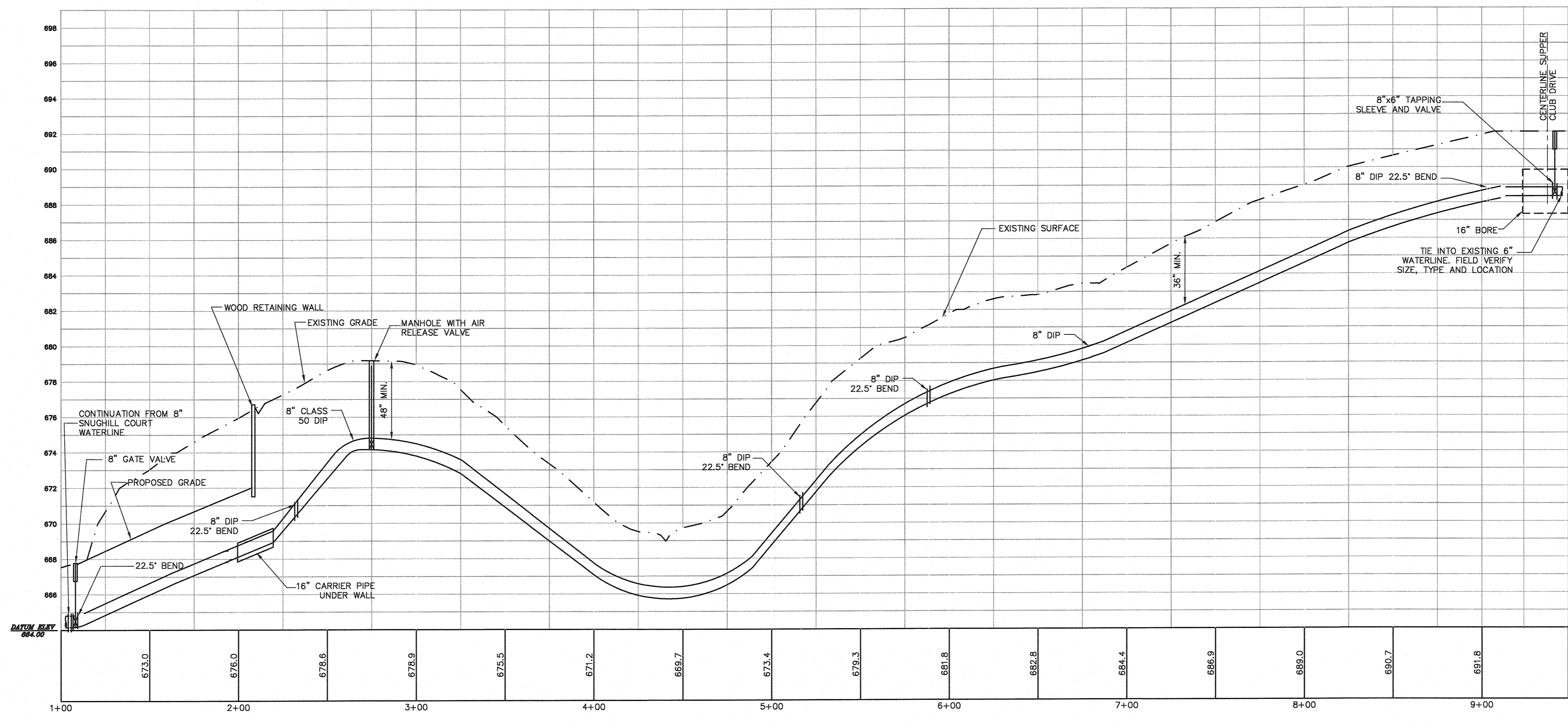
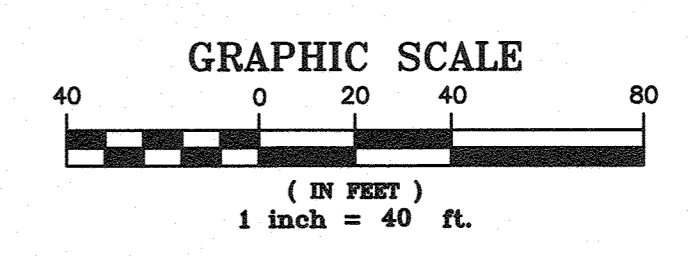
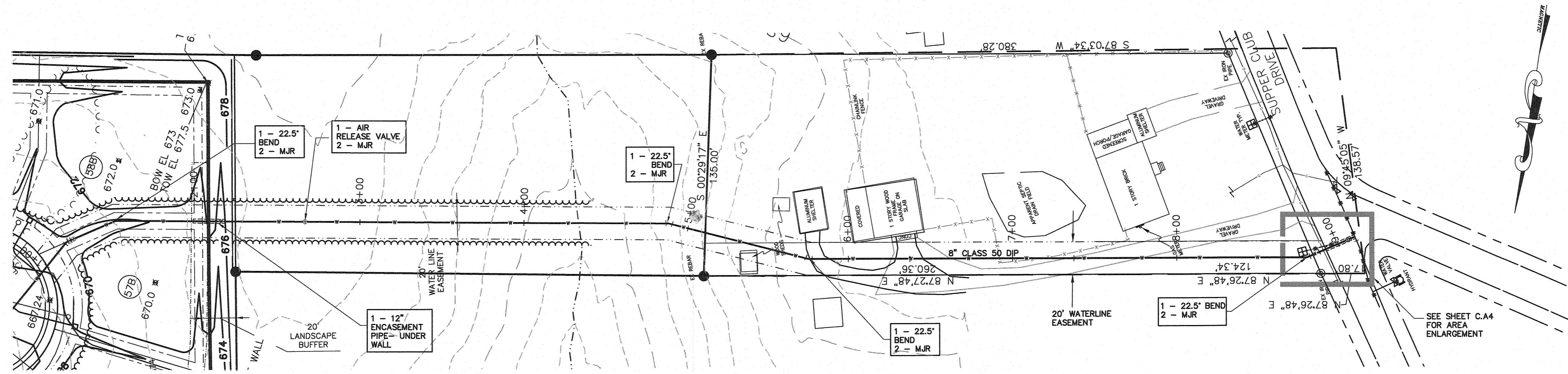
ASHBURY - PHASE 2
 MEBANE, NORTH CAROLINA
GRADING AND STORM DRAINAGE PLAN

REV.	DATE	DESCRIPTION	BY
1	7/14/14	REVISED LOT LAYOUT	KRM
2	09-12-14	REV WETLAND AND PIPE SIZE	DTR
3	10-14-14	PER CITY OF MEBANE COMMENT	KPG
4	1-12-16	PER CITY COMMENT	KPG
5	7-21-16	REVISED PER CITY COMMENT	KPG

DATE: March 28, 2014
 HORIZONTAL SCALE: 1"=50'
 VERTICAL SCALE: N/A
 PROJECT MANAGER: 10022
 DRAWN BY: RLF
 PROJECT NO.: KPG
 DRAWING NAME: 10022-CD

THIS DRAWING AND THE DESIGN HEREON ARE THE PROPERTY OF CIVIL CONSULTANTS, INC. THE INFORMATION ON THIS DRAWING IS NOT FOR USE ON ANY OTHER SITE OR PROJECT. THE REPRODUCTION OR OTHER USE OF THIS DRAWING IN WHOLE OR IN PART, WITHOUT WRITTEN CONSENT OF CIVIL CONSULTANTS, INC. IS PROHIBITED.
 COPYRIGHT 2003 CIVIL CONSULTANTS, INC.

SHEET NO.
C.A5
 CONSTRUCTION PHASE 2



CIVIL CONSULTANTS INC.
Civil Engineers
Land Development Consultants

3708 Lyckan Parkway Suite 201 Durham, NC 27707
PH: (919) 961-6445 Fax: (919) 403-0536 www.civil-consultants.com



ASHBURY - PHASE 2
MEBANE, NORTH CAROLINA

**WATERLINE EXTENSION
PLAN AND PROFILE**

REV.	DATE	DESCRIPTION	BY
1	1-24-08	PER CITY COMMENTS	KPG
2	7-11-14	REVISED LOT LAYOUT	KPG
3	10-14-14	PER CITY OF MEBANE COMMENT	KPG
4	1-12-16	PER CITY COMMENT	KPG

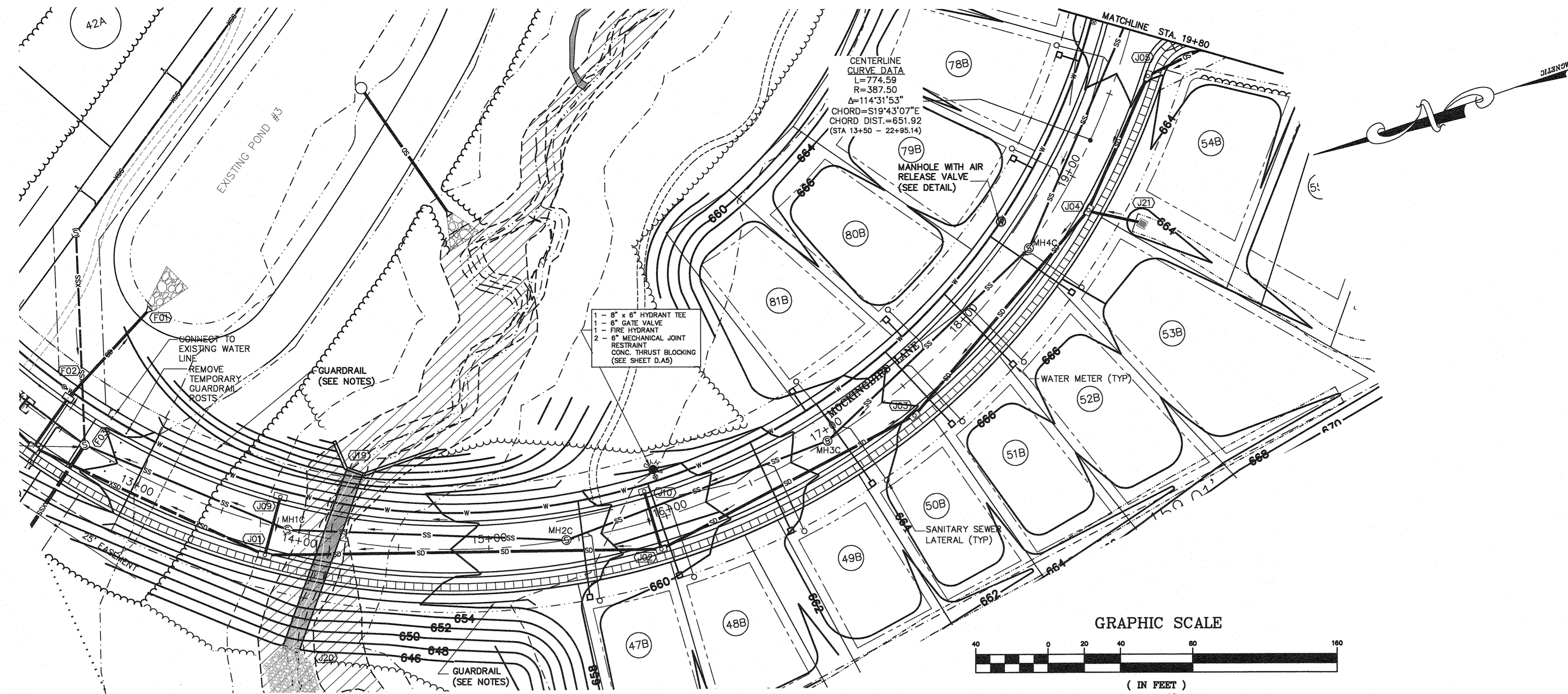
DATE: MAY 30, 2007
 HORIZONTAL SCALE: 1"=40'
 VERTICAL SCALE: 1"=4'
 PROJECT MANAGER: KPG
 DRAWN BY: RJF
 PROJECT NO: 10022
 DRAWING NAME: 10022-CD Profile2

THIS DRAWING AND THE DESIGN HEREON ARE THE PROPERTY OF CIVIL CONSULTANTS, INC. THE INFORMATION ON THIS DRAWING IS NOT FOR USE ON ANY OTHER SITE OR PROJECT. THE REPRODUCTION OR OTHER USE OF THIS DRAWING IN WHOLE OR IN PART, WITHOUT WRITTEN CONSENT OF CIVIL CONSULTANTS, INC., IS PROHIBITED.

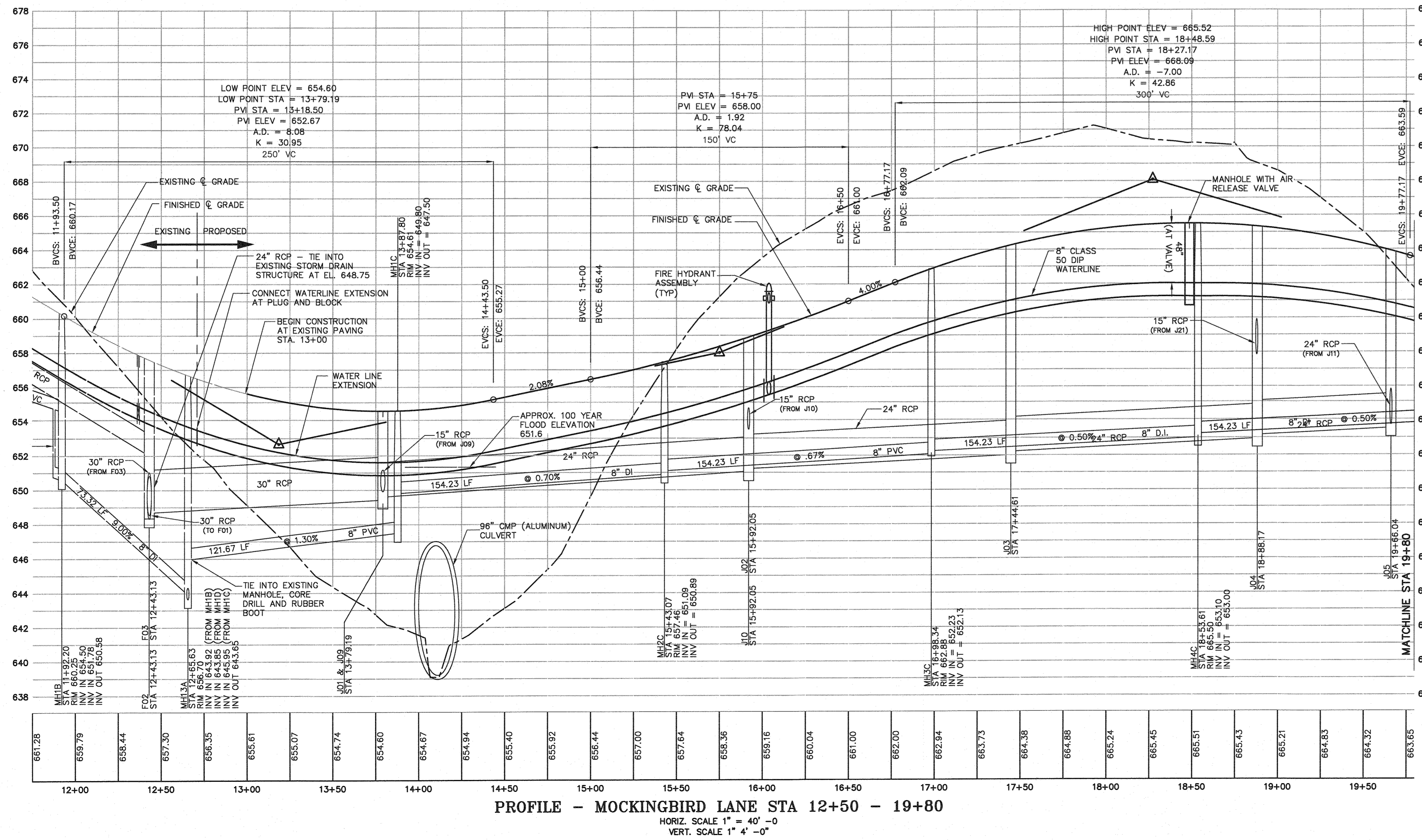
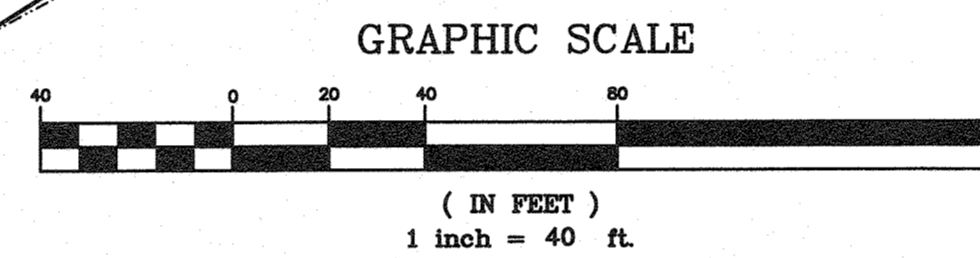
COPYRIGHT 2003 CIVIL CONSULTANTS, INC.



Know what's below.
Call before you dig.
(Or call: 1-800-632-4949)



PLAN - MOCKINGBIRD LANE STA 12+50 - 19+80
SCALE 1" = 40' - 0"



PROFILE - MOCKINGBIRD LANE STA 12+50 - 19+80
HORIZ. SCALE 1" = 40' - 0"
VERT. SCALE 1" 4' - 0"

NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE WETLANDS AND CREEK IMPACTS ARE AVOIDED.
2. SEE SHEET C.A.3 FOR UTILITY GENERAL NOTES.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF MEBANE SPECIFICATIONS AND STANDARD DETAILS, LATEST EDITION.
4. ALL SPOT ELEVATIONS SHOWN AT CURBS & GUTTER ARE AT TOP BACK OF CURB UNLESS NOTED OTHERWISE.
5. MAIN LINE WATERLINE JOINTS TO BE "SLIP" ON AND FITTINGS, VALVES AND HYDRANTS TO USE MJ WITH "MEGALUG" JOINT RESTRAINT SYSTEM. WATERLINE JOINTS AT FIRE HYDRANTS TO ALSO INCLUDE CONCRETE THRUST BLOCKING.
6. DEVELOPER SHALL INSTALL GUARD RAIL ALONG TOP OF PIPE CULVERT ON BOTH SIDES OF THE STREET TO THE "CUT / FILL" LINE.
7. SEE SHEET C.A.5 FOR STORM DRAIN SCHEDULE.

ASHBURY - PHASE 2
MEBANE, NORTH CAROLINA

MOCKINGBIRD LANE STA 12+50-19+80
PLAN AND PROFILE

REV.	DATE	DESCRIPTION	BY
1	1-24-08	PER CITY COMMENTS	KPG
2	5-1-08	TEXT MODIFICATION	KPG
3	7-11-14	REVISED LOT LAYOUT	KPG
4	10-14-14	PER CITY OF MEBANE COMMENT	KPG
5	11-12-16	PER CITY COMMENT	KPG

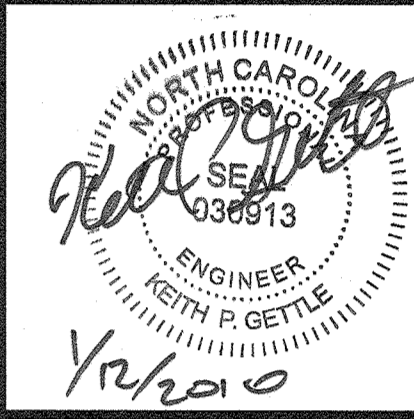
DATE:	APRIL 30, 2022
HORIZONTAL SCALE:	1"=40'
VERTICAL SCALE:	1"=4'
PROJECT MANAGER:	KPG
DRAWN BY:	RJF
PROJECT NO.:	10022
DRAWING NAME:	10022-CD Profile

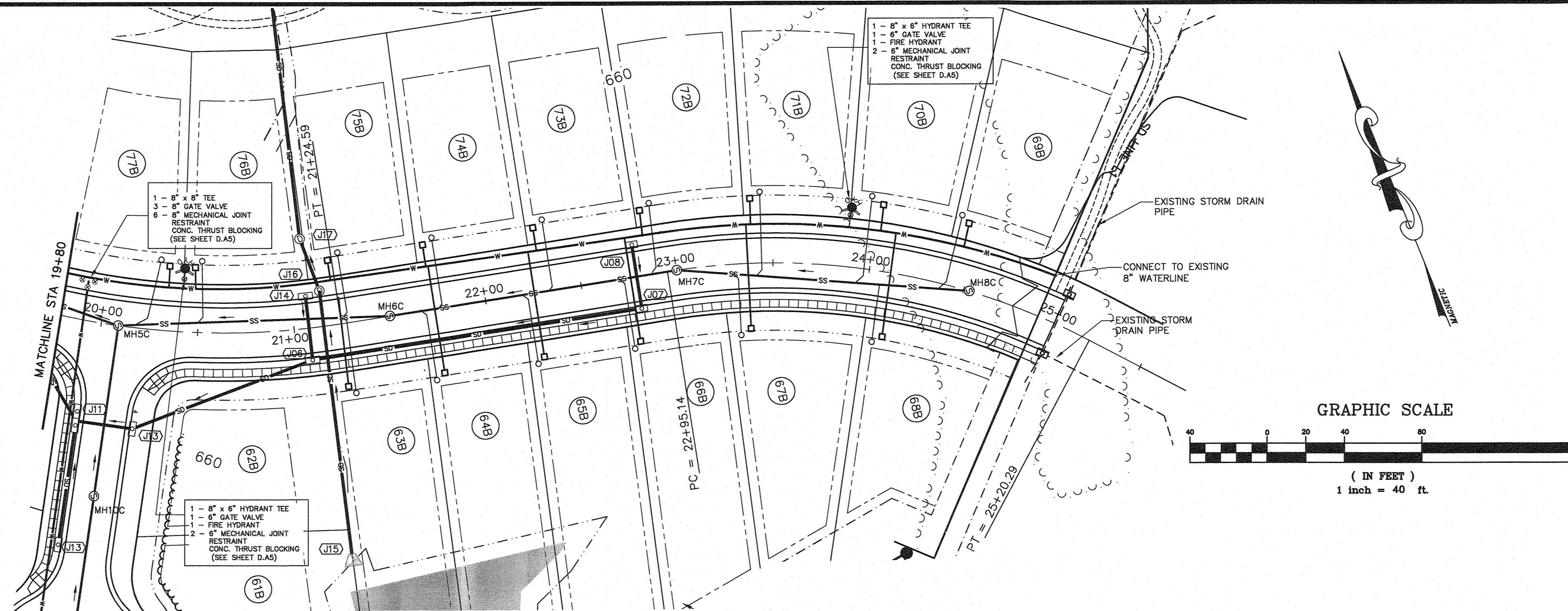
THIS DRAWING AND THE DESIGN HEREON ARE THE PROPERTY OF CIVIL CONSULTANTS, INC. THE INFORMATION ON THIS DRAWING IS NOT TO BE USED ON ANY OTHER SITE OR PROJECT. THE REPRODUCTION OR OTHER USE OF THIS DRAWING IN WHOLE OR IN PART, WITHOUT WRITTEN CONSENT OF CIVIL CONSULTANTS, INC. IS PROHIBITED.

COPYRIGHT 2005 CIVIL CONSULTANTS, INC.

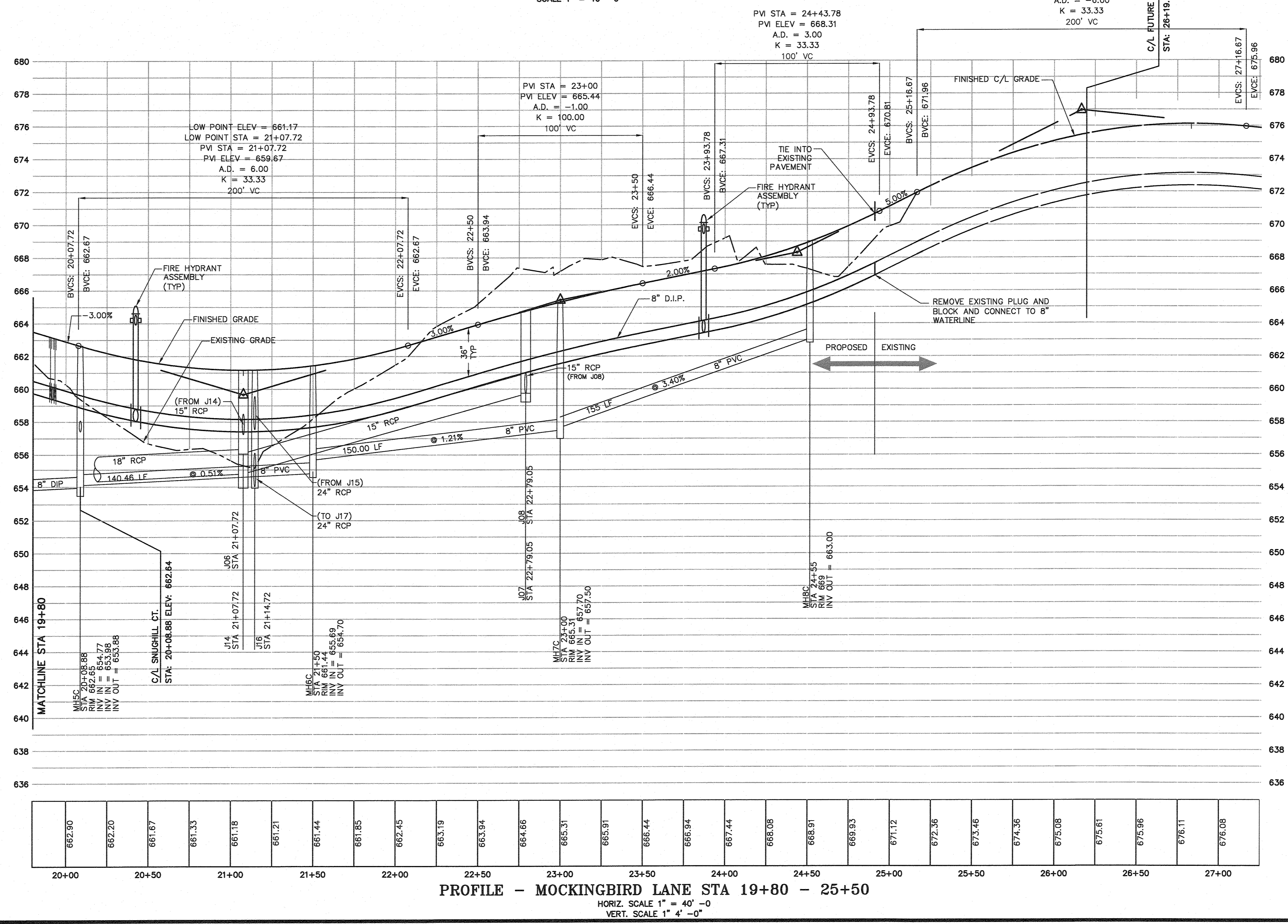
SHEET NO.
R.A1
CONSTRUCTION PHASE 2

CIVIL CONSULTANTS, INC.
Civil Engineers
Land Development Consultants
3708 Luckan Parkway, Suite 201, Durham, NC 27707
PH: (919) 490-1645 Fax: (919) 403-0336 www.civil-consultants.com





PLAN - MOCKINGBIRD LANE STA 19+80 - 25+50
SCALE 1" = 40' - 0"



PROFILE - MOCKINGBIRD LANE STA 19+80 - 25+50
HORIZ. SCALE 1" = 40' - 0"
VERT. SCALE 1" 4' - 0"

- NOTES**
1. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE WETLANDS AND CREEK IMPACTS ARE AVOIDED.
 2. SEE SHEET C.A5 FOR STORM DRAIN SCHEDULE.
 3. SEE SHEET C.A3 FOR UTILITY GENERAL NOTES.
 4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF MEBANE SPECIFICATIONS AND STANDARD DETAILS, LATEST EDITION.
 5. ALL SPOT ELEVATIONS SHOWN AT CURB & GUTTER ARE AT TOP BACK OF CURB UNLESS NOTED OTHERWISE.
 6. ALL WATERLINE JOINTS TO BE MJ WITH "MEGALUG" JOINT RESTRAINT SYSTEM. WATERLINE JOINTS AT FIRE HYDRANTS TO ALSO INCLUDE CONCRETE THRUST BLOCKING.

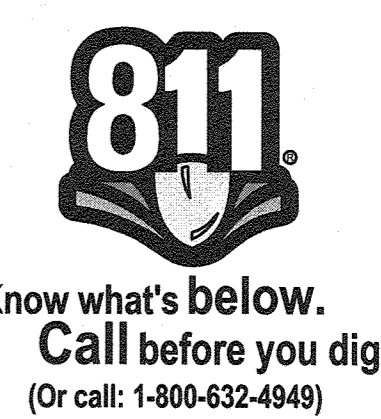
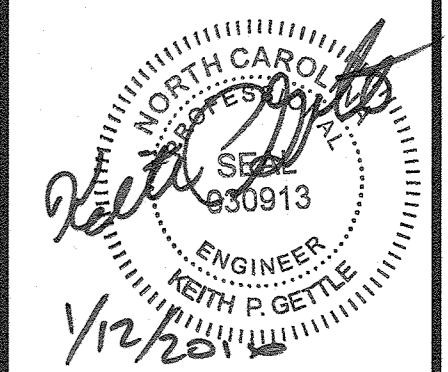
ASHBURY - PHASE 2
MEBANE, NORTH CAROLINA
MOCKINGBIRD LANE STA 19+80-25+50
PLAN AND PROFILE

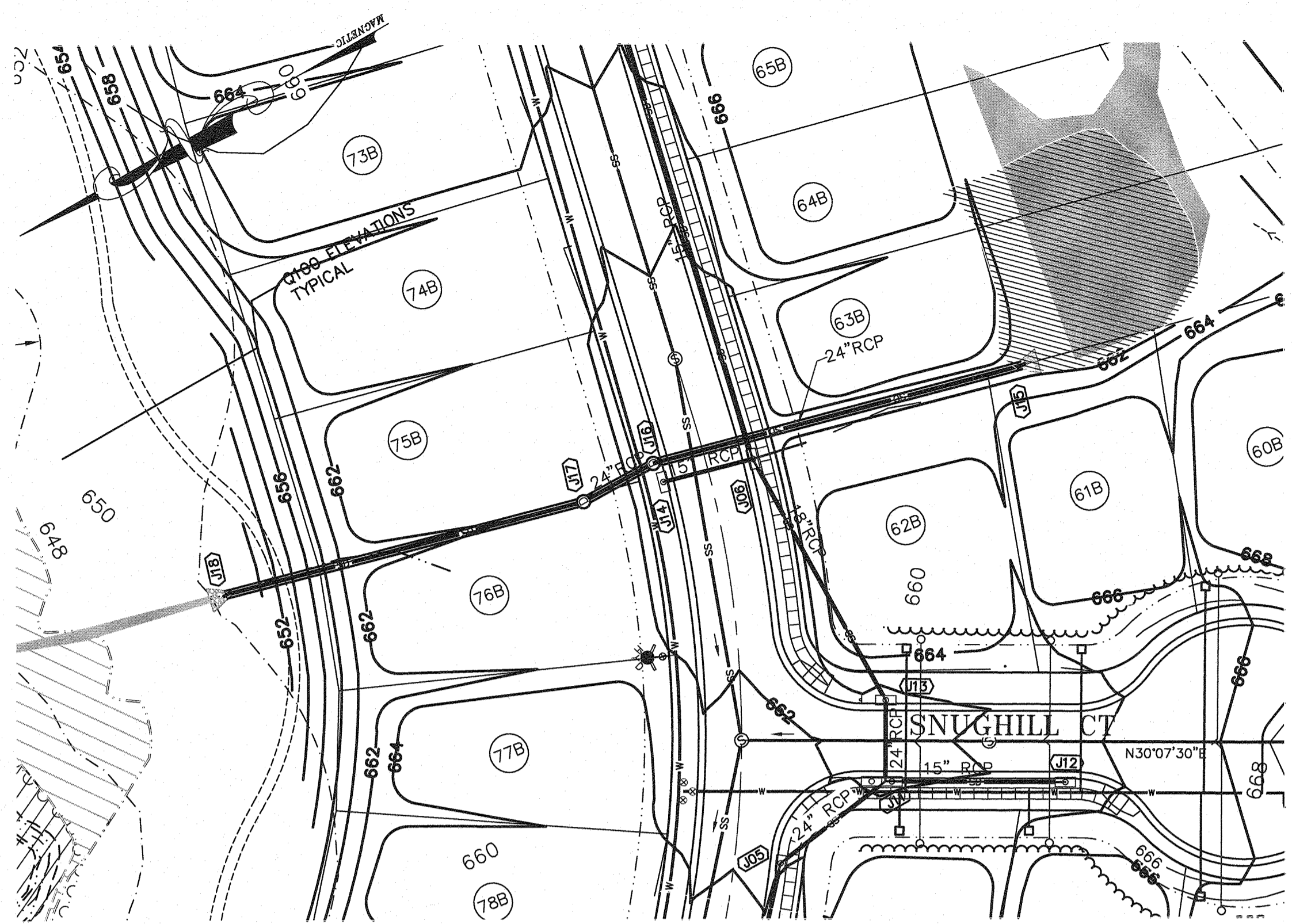
REV.	DATE	DESCRIPTION	BY
1	1-24-08	PER CITY COMMENTS	KPG
2	5-1-08	TEXT MODIFICATION	KPG
3	7-11-14	REVISED LOT LAYOUT	KPG
4	10-14-14	PER CITY OF MEBANE COMMENT	KPG
5	1-12-16	PER CITY COMMENT	KPG

DATE: APRIL 30, 2007
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'
PROJECT MANAGER: KPG
DRAWN BY: RJA
PROJECT NO: 10022
DRAWING NAME: 10022-CD Profile

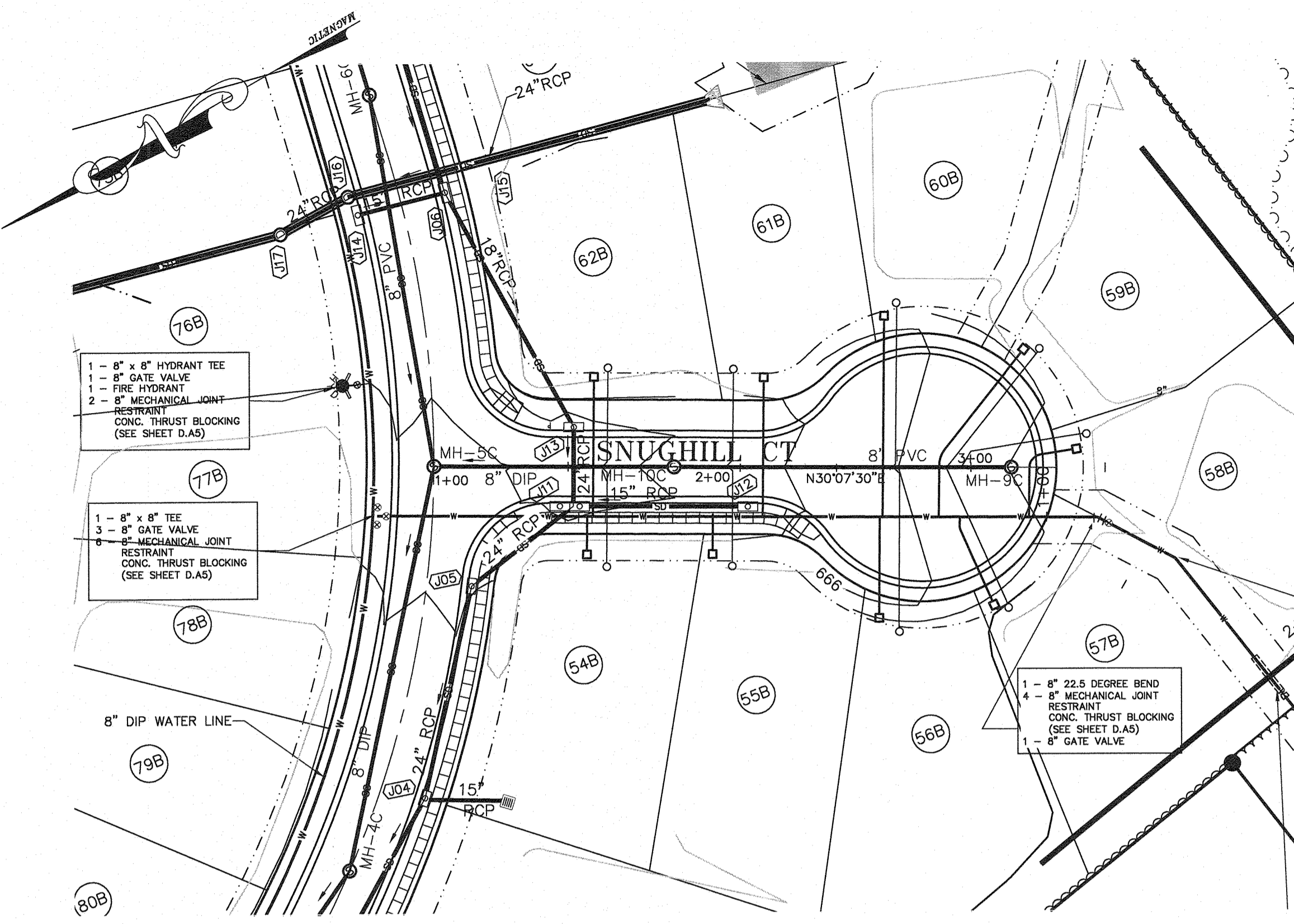
SHEET NO.
R.A2
CONSTRUCTION PHASE 2

CIVIL CONSULTANTS INC.
Civil Engineers
Land Development Consultants
3708 Lysden Parkway, Suite 201, Durham, NC 27707
PH: (919) 490-1665 Fax: (919) 485-0536 www.civil-consultants.com



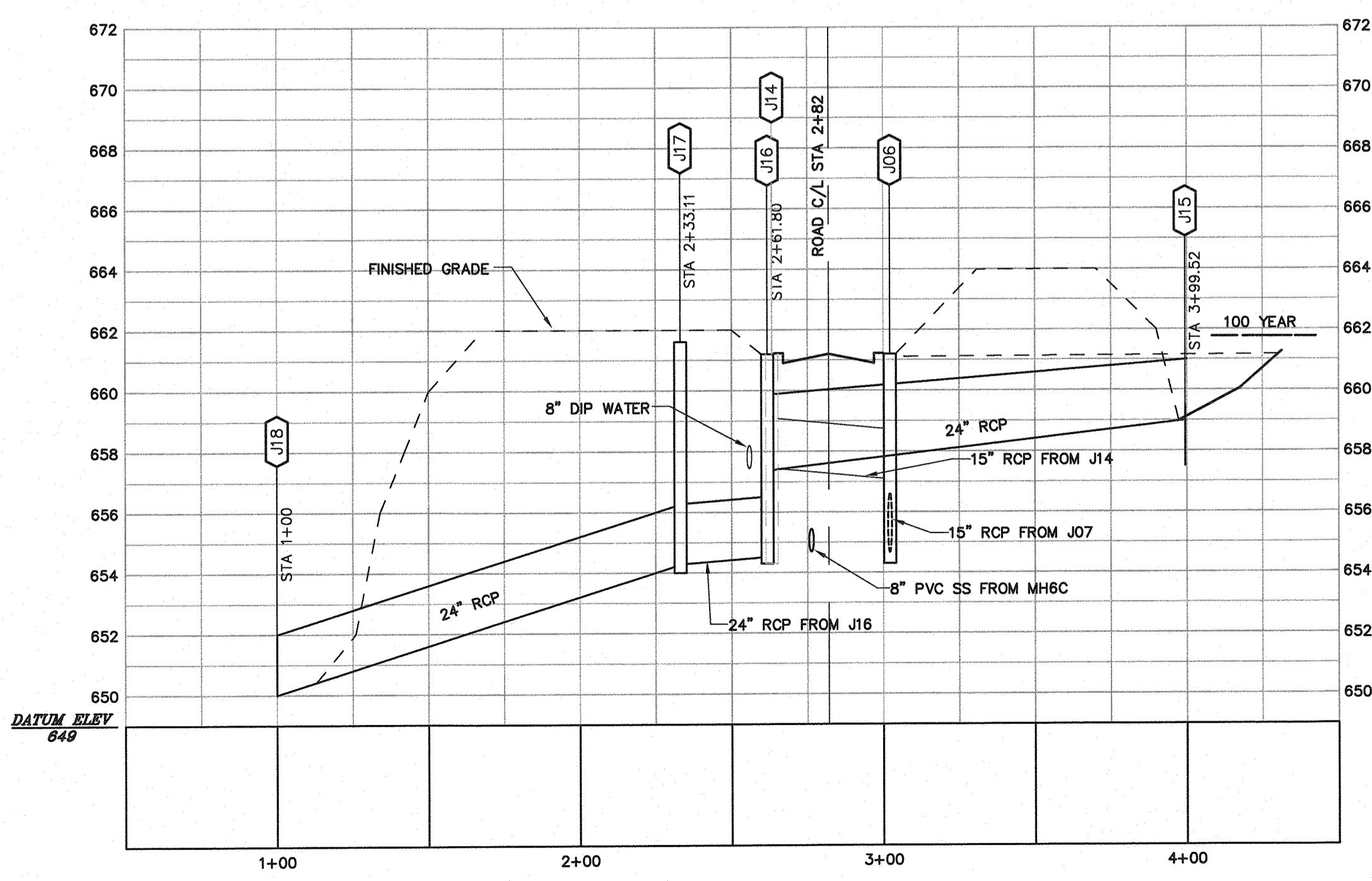
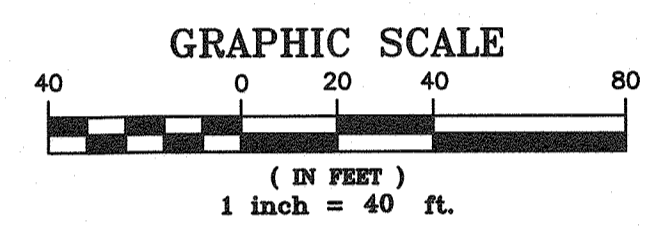


PLAN - PIPE CROSSING AT MOCKINGBIRD LANE
SCALE 1" = 40' - 0"

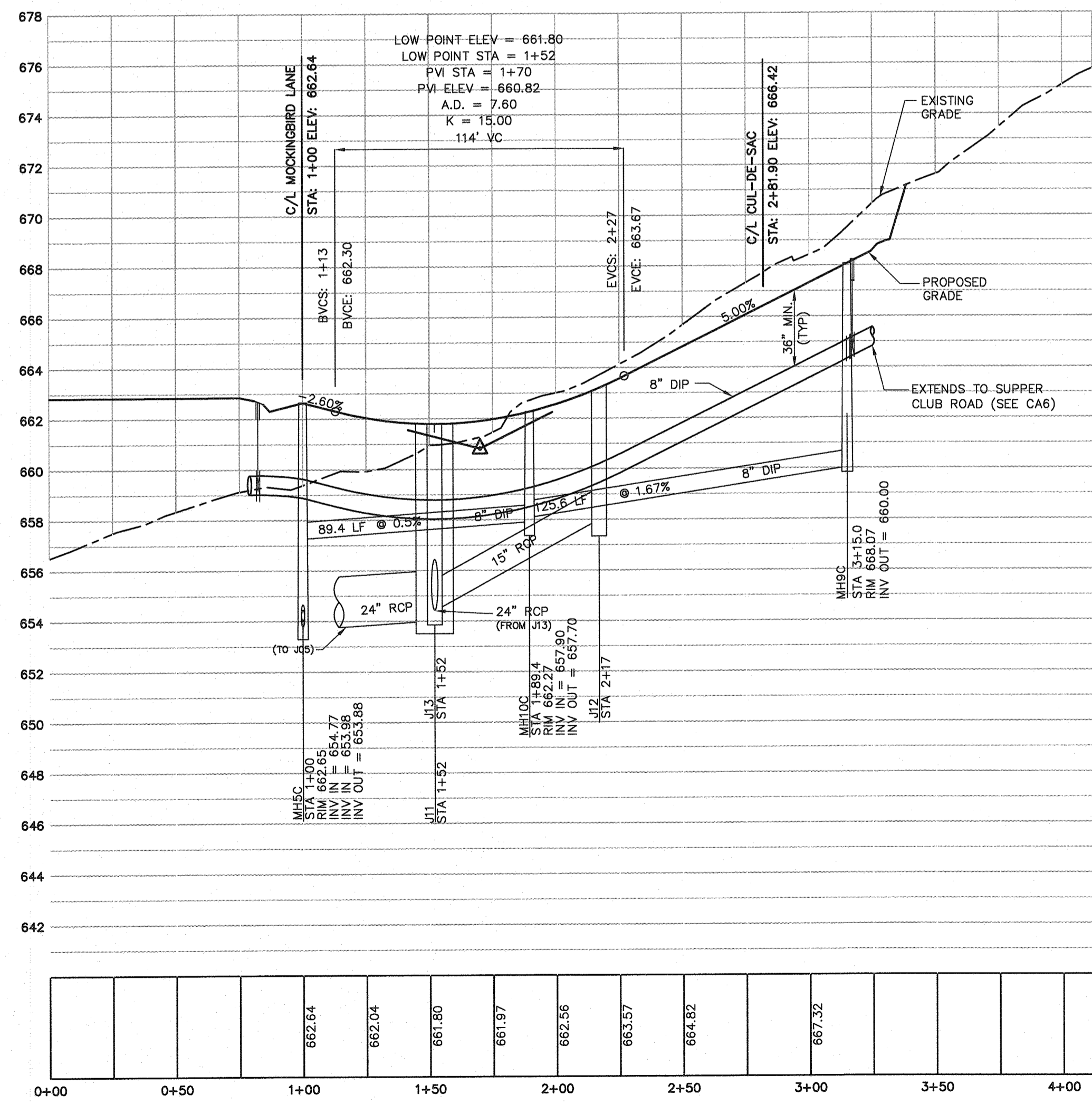


PLAN - SNUGHILL COURT
SCALE 1" = 40' - 0"

- NOTES**
1. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE WETLANDS AND CREEK IMPACTS ARE AVOIDED.
 2. SEE SHEET C.A5 FOR STORM DRAIN SCHEDULE
 3. SEE SHEET C.A3 FOR UTILITY GENERAL NOTES.
 4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF MEBANE SPECIFICATIONS AND STANDARD DETAILS, LATEST EDITION.
 5. ALL SPOT ELEVATIONS SHOWN AT CURB & GUTTER ARE AT TOP BACK OF CURB UNLESS NOTED OTHERWISE.
 6. ALL WATERLINE JOINTS TO BE MJ WITH "MEGALUG" JOINT RESTRAINT SYSTEM. WATERLINE JOINTS AT FIRE HYDRANTS TO ALSO INCLUDE CONCRETE THRUST BLOCKING.

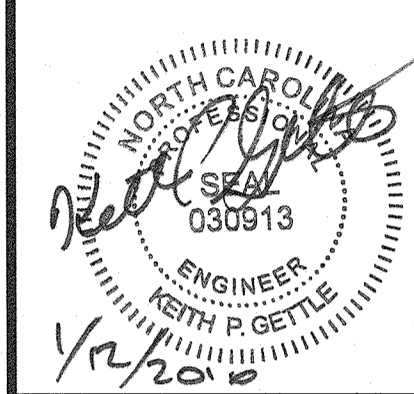


PROFILE - PIPE CROSSING AT MOCKINGBIRD LANE
HORIZ. SCALE 1" = 40' - 0"
VERT. SCALE 1" 4' - 0"



PROFILE - SNUGHILL COURT
HORIZ. SCALE 1" = 40' - 0"
VERT. SCALE 1" 4' - 0"

CIVIL CONSULTANTS INC.
Land Development Consultants
Civil Engineers
3708 Lyckan Parkway Suite 201 Durham, NC 27707
PH: (919) 490-1645 Fax: (919) 463-0556 www.civil-consultants.com



ASHBURY - PHASE 2
MEBANE, NORTH CAROLINA
SNUGHILL COURT
PLAN AND PROFILE

REV.	DATE	DESCRIPTION	BY
1	1-24-08	PER CITY COMMENTS	KPG
2	5-1-08	TEXT MODIFICATION	KPG
3	7-11-14	REVISED LOT LAYOUT	KPG
4	10-14-14	PER CITY OF MEBANE COMMENT	KPG
5	1-12-16	PER CITY COMMENT	KPG

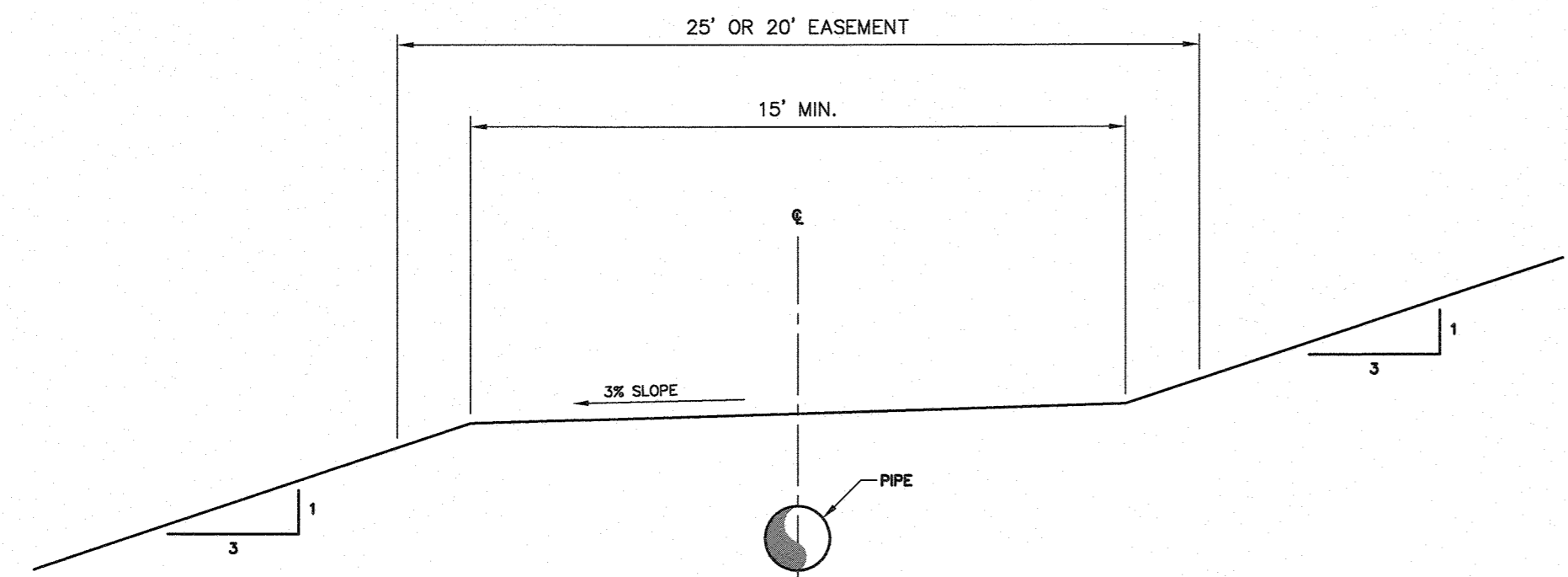
DATE: MAY 30, 2007
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'
PROJECT MANAGER: KPG
DRAWN BY: RJE
PROJECT NO: 10022
DRAWING NAME: 10022-CD Profile2



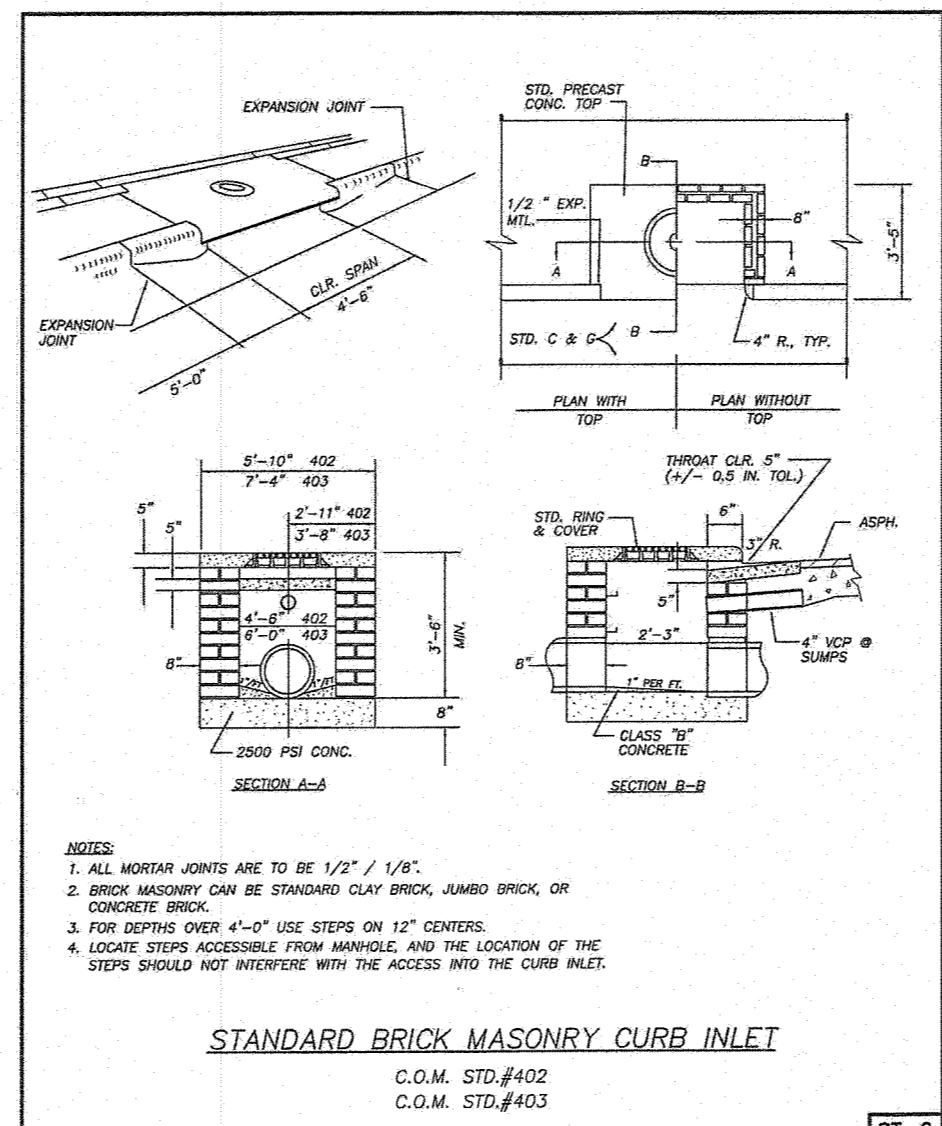
Know what's below.
Call before you dig.
(Or call: 1-800-632-4949)

THIS DRAWING AND THE DESIGN HEREON ARE THE PROPERTY OF CIVIL CONSULTANTS, INC. THE INFORMATION ON THIS DRAWING IS NOT FOR USE ON ANY OTHER SITE OR PROJECT. THE REPRODUCTION OR OTHER USE OF THIS DRAWING IN WHOLE OR IN PART, WITHOUT WRITTEN CONSENT OF CIVIL CONSULTANTS, INC., IS PROHIBITED.
COPYRIGHT 2003 CIVIL CONSULTANTS, INC.

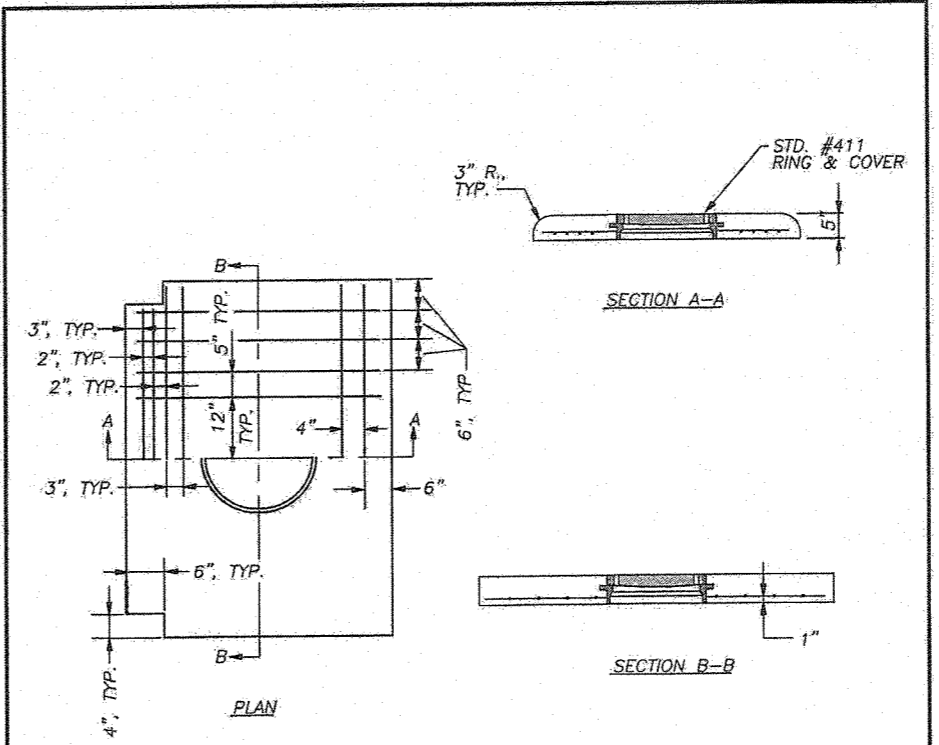
SHEET NO.
R.A3
CONSTRUCTION PHASE 2



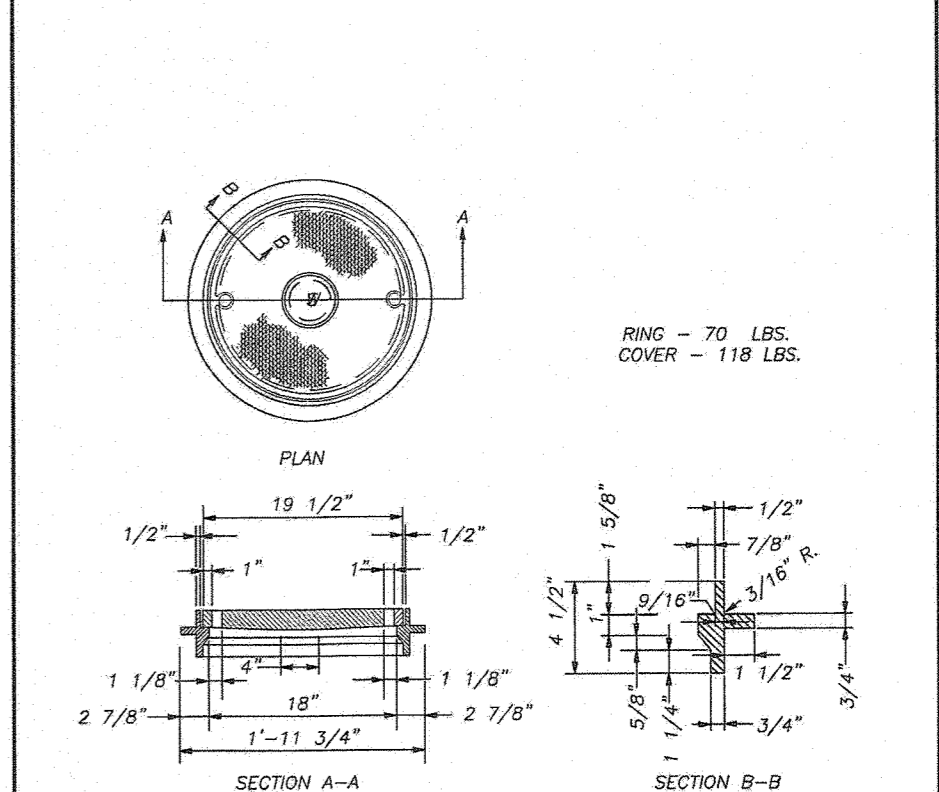
TYPICAL STORM DRAINAGE AND SANITARY SEWER EASEMENT SECTION



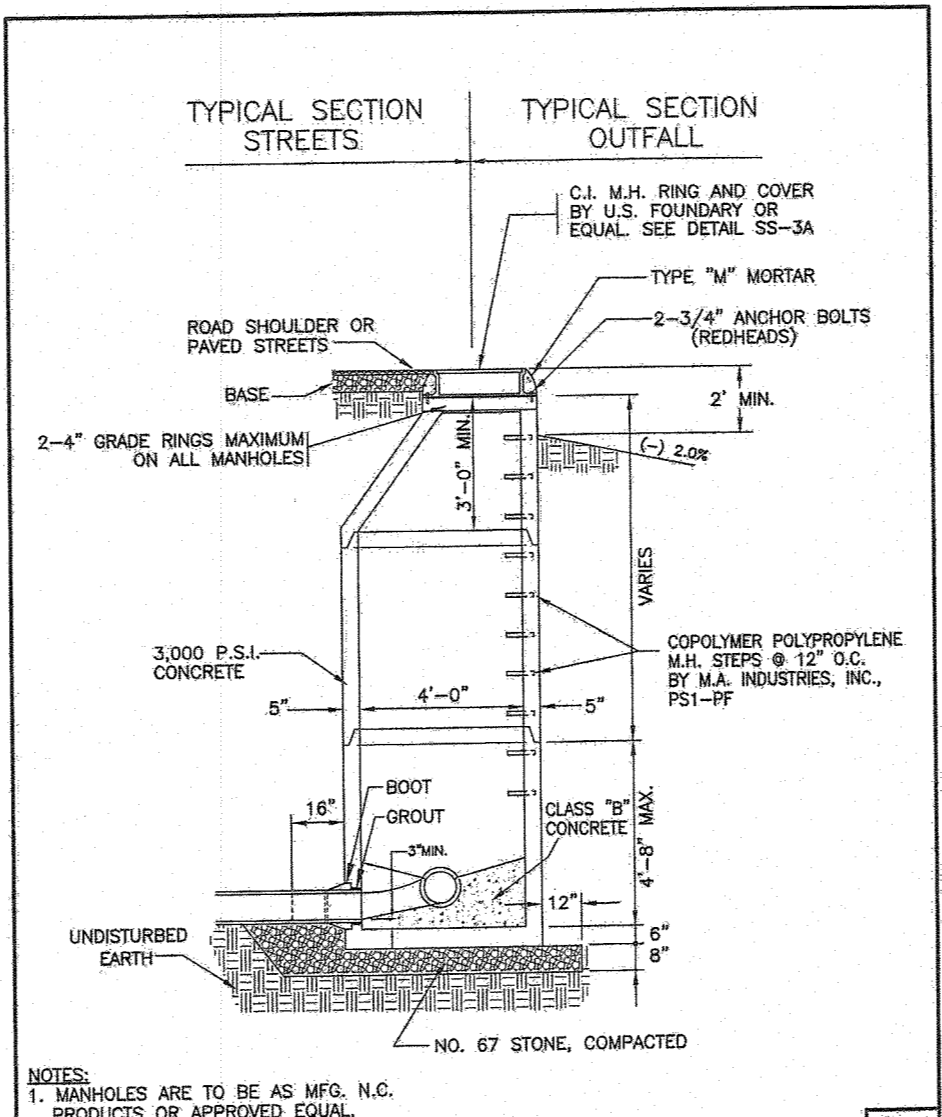
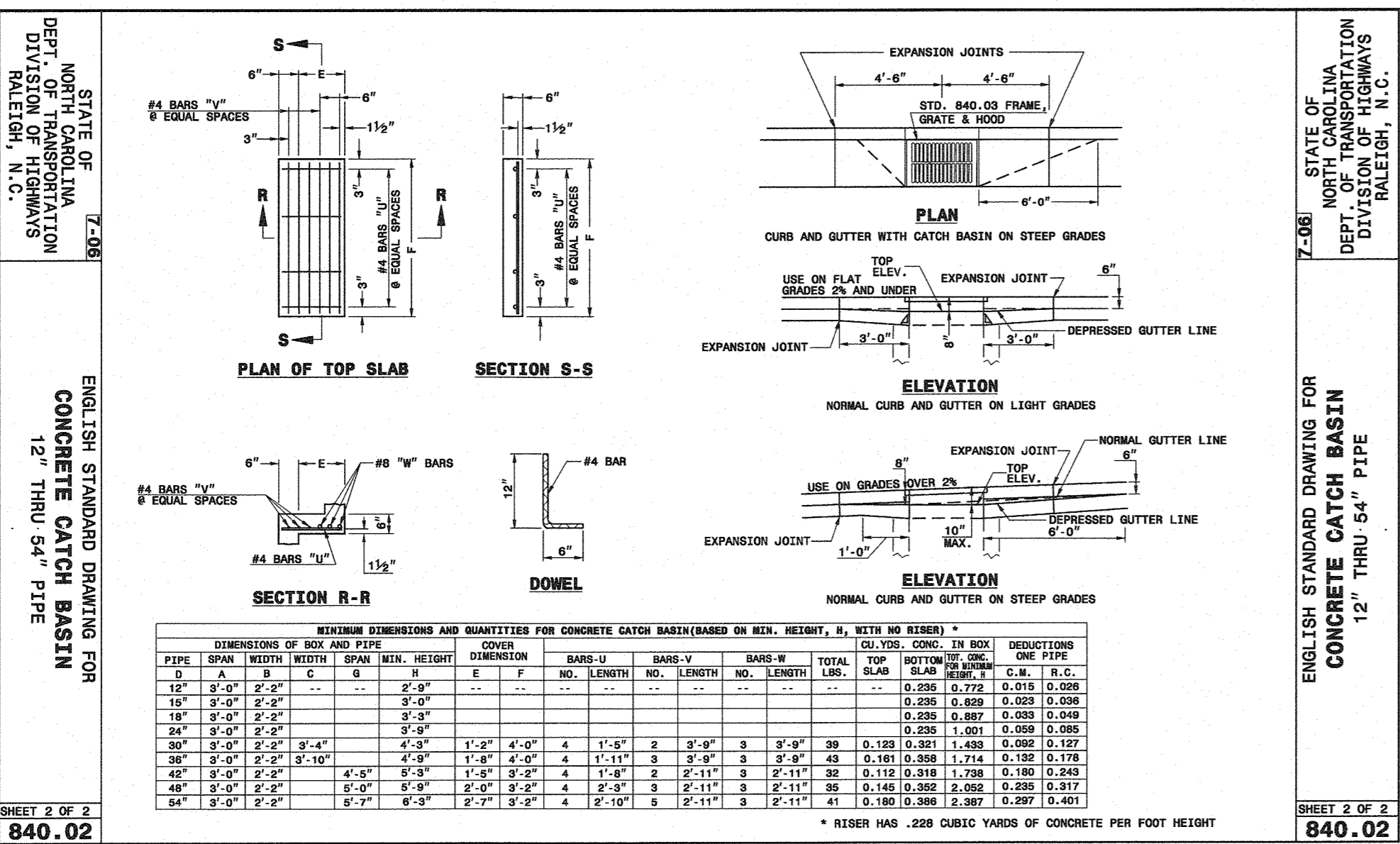
CITY OF MEBANE STANDARD CURB INLET DETAILS (402 & 403)
C.O.M. STD. #402
C.O.M. STD. #403



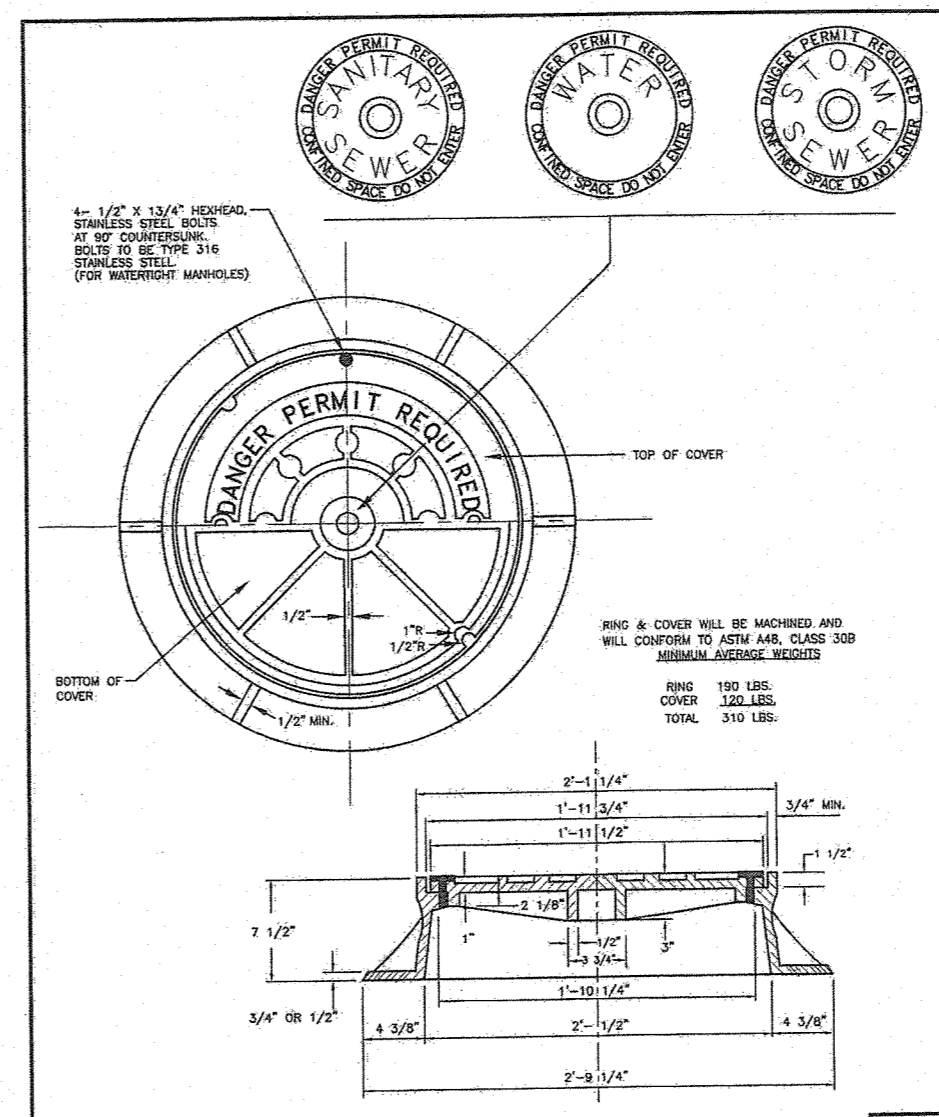
CITY OF MEBANE STANDARD CURB INLET TOP DETAIL (412)
C.O.M. STD. #412



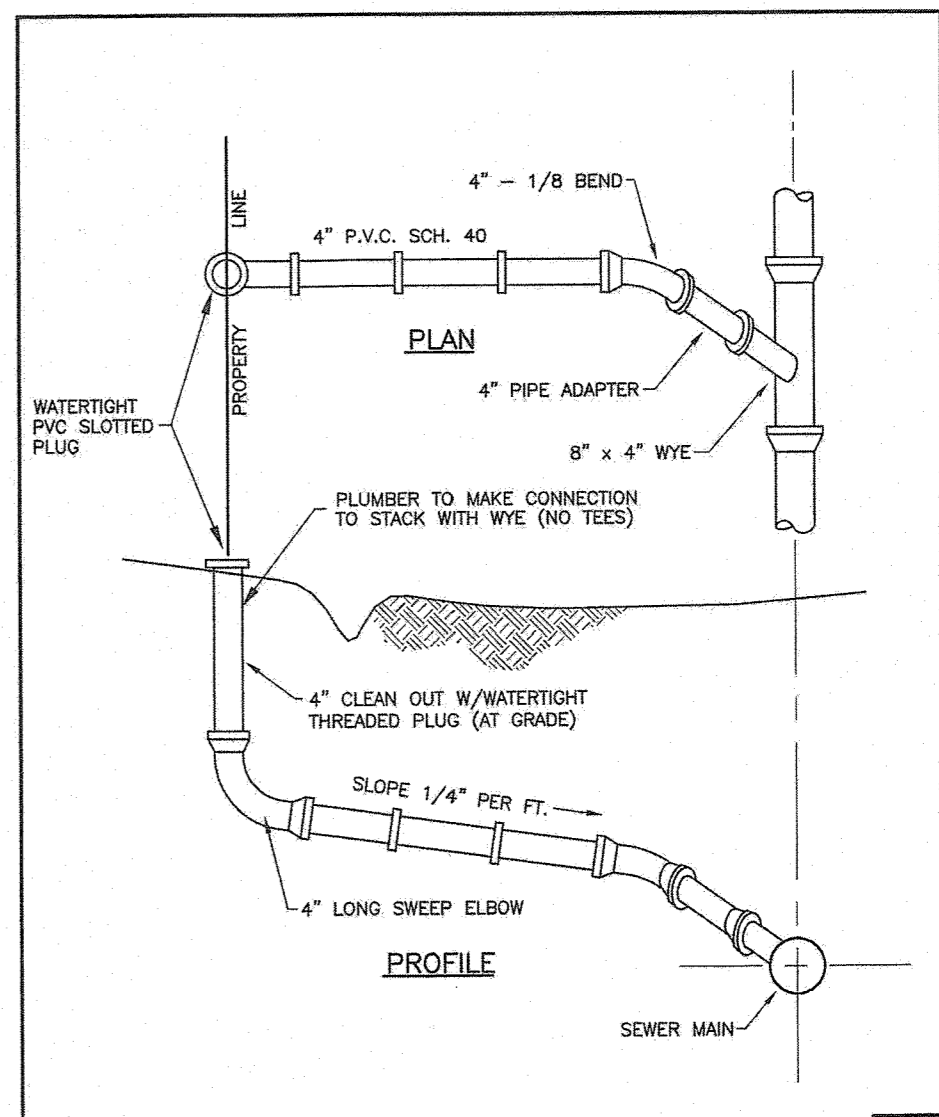
CITY OF MEBANE STANDARD INLET RING & COVER DETAIL (411)
C.O.M. STD. #411



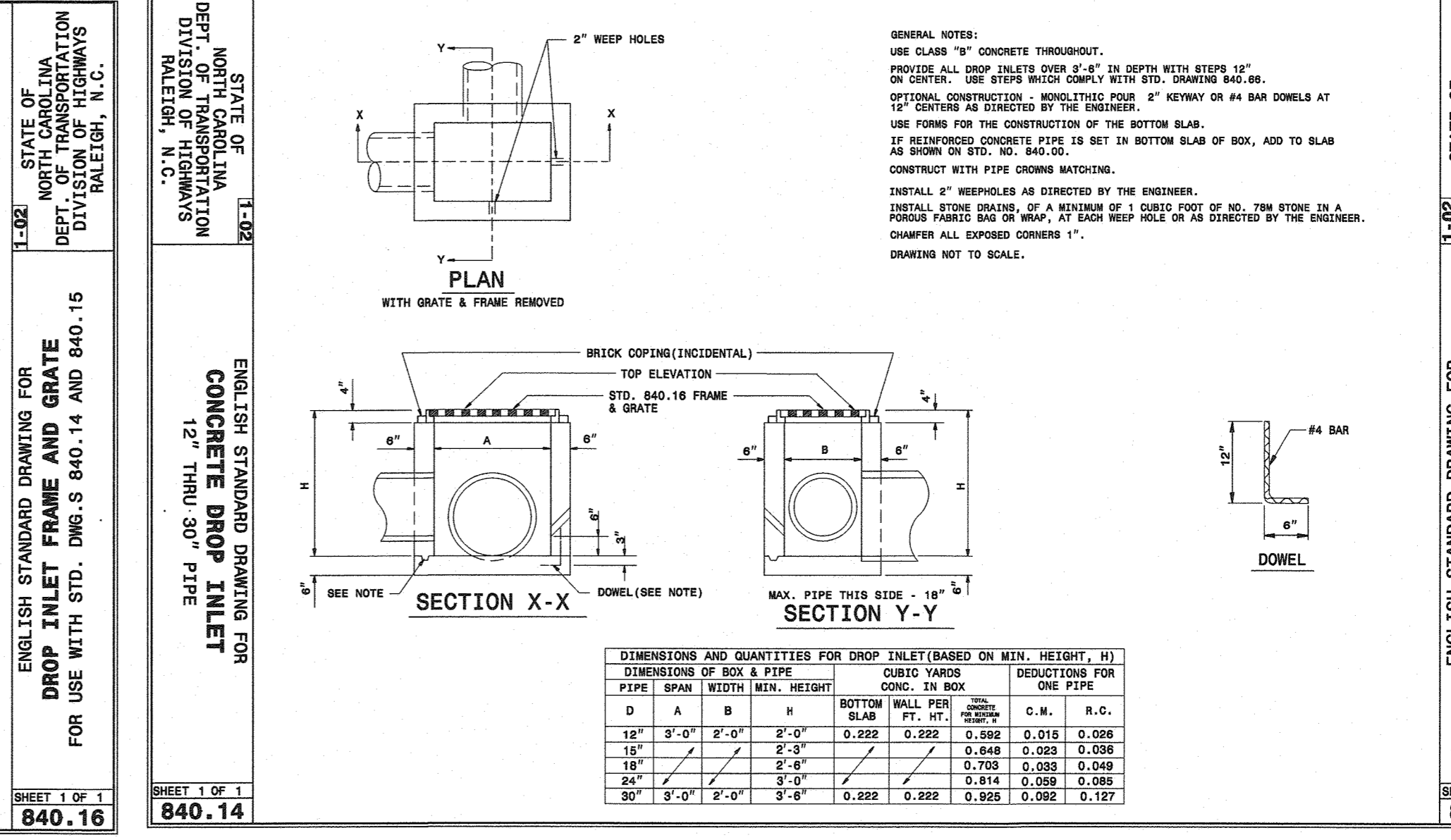
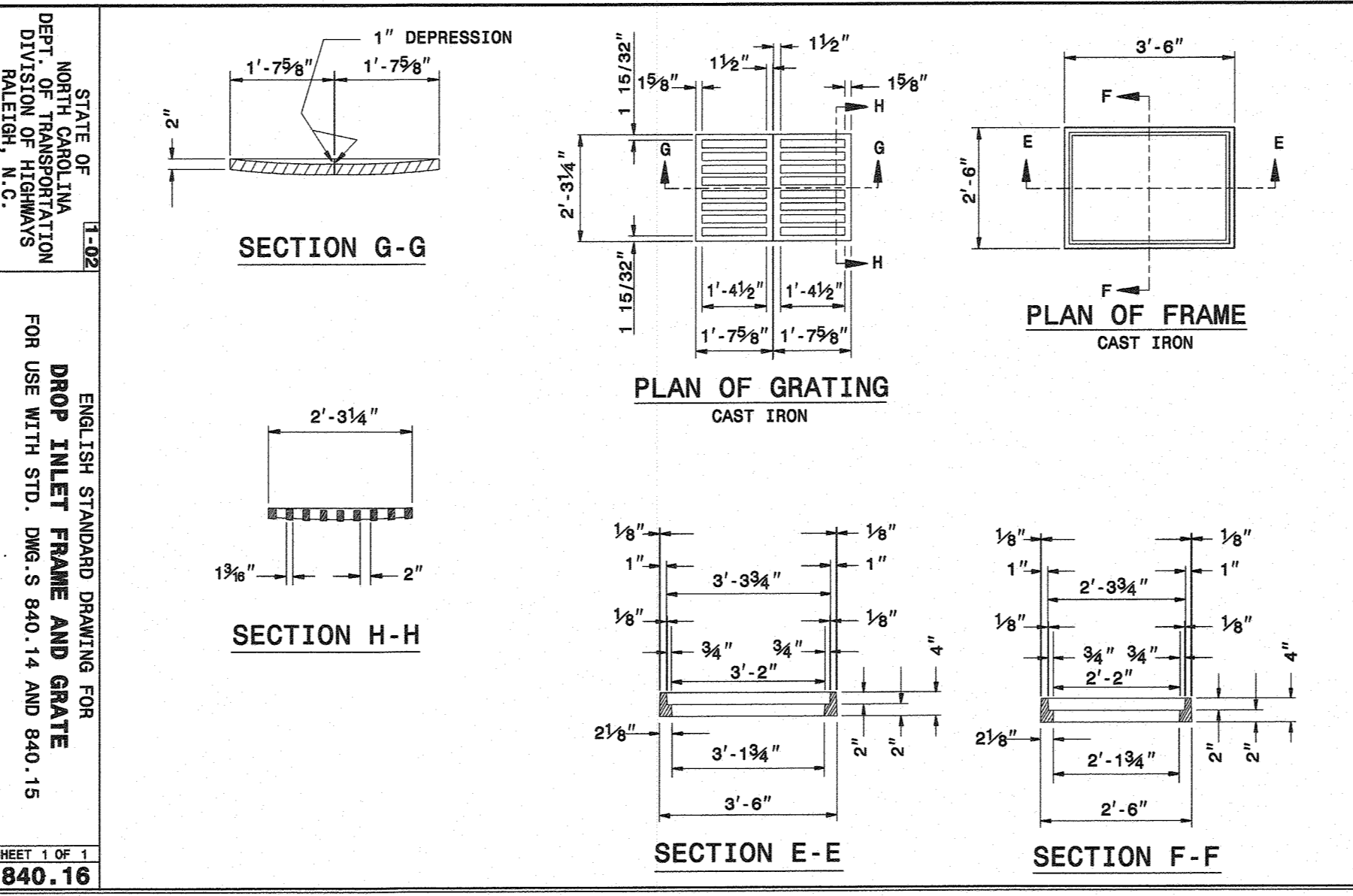
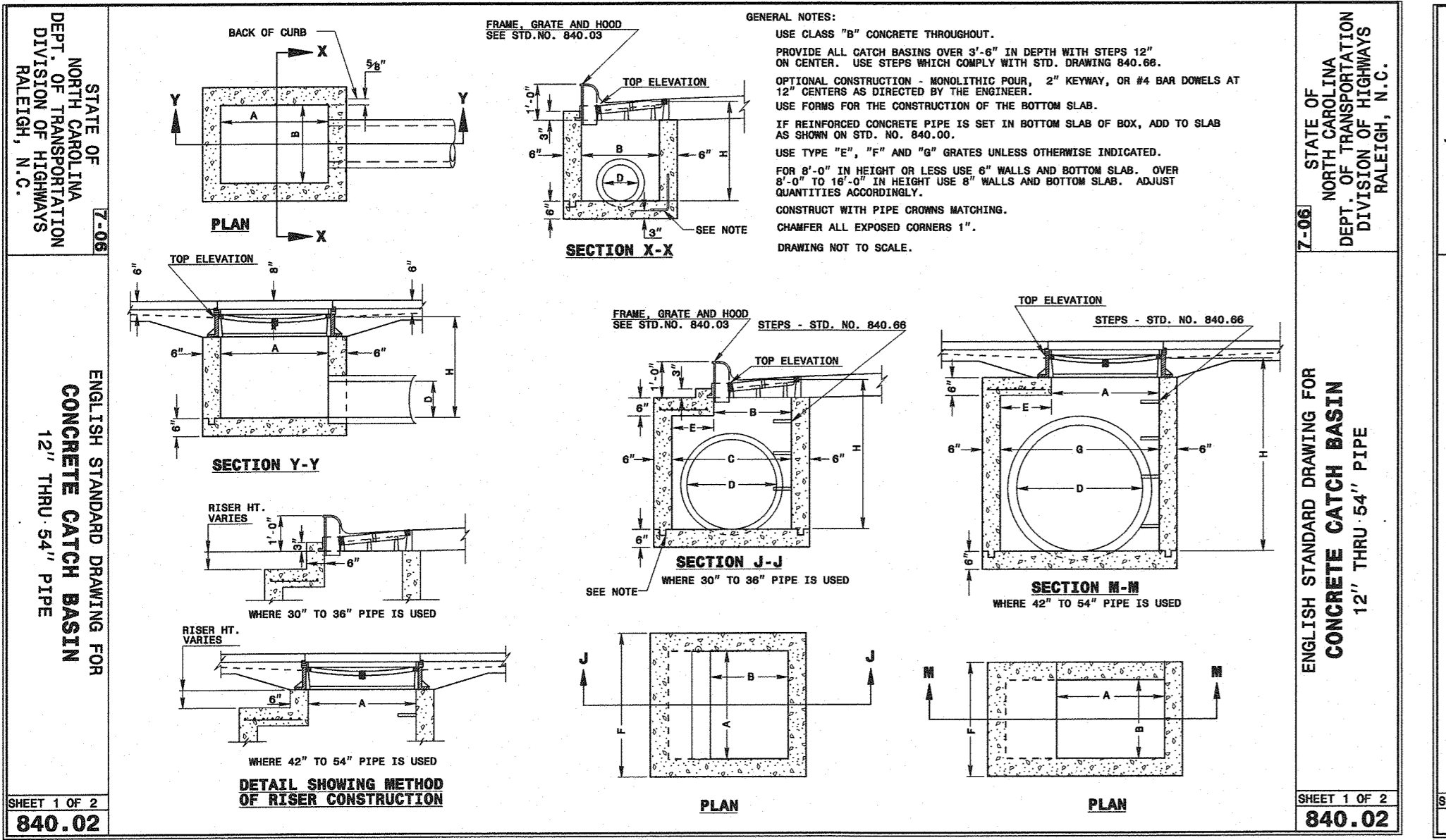
CITY OF MEBANE STANDARD STD. PRECAST MANHOLE
C.O.M. STD. #402



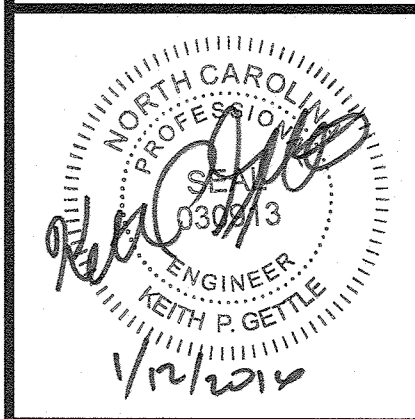
CITY OF MEBANE STANDARD MANHOLE RING AND COVER
C.O.M. STD. #403



CITY OF MEBANE STANDARD SEWER SERVICE CONNECTION
C.O.M. STD. #404



CIVIL CONSULTANTS INC.
Civil Engineers
Land Development Consultants
3708 Lyckan Parkway, Suite 201, Durham, NC 27707
PH: (919) 490-1645 Fax: (919) 403-0536 www.civil-consultants.com



ASHBURY - PHASE 2
MEBANE, NORTH CAROLINA
STORM DRAINAGE AND SANITARY SEWER DETAILS

REV.	DATE	DESCRIPTION	BY
1	5-1-08	TEXT MODIFICATION	KRG
2	10-16-14	MEBANE DETAIL UPDATE	KRM
3	1-12-15	PER CITY COMMENT	KPG

DATE: SEPTEMBER 20, 2007
HORIZONTAL SCALE: N/A
VERTICAL SCALE: N/A
PROJECT MANAGER: KRG
DRAWN BY: RJE
PROJECT NO.: 10022A
DRAWING NAME: 10022-CD DETAILS-2436.DWG
DRAWING NO.: 10022A

SHEET NO.
D.A4
CONSTRUCTION PHASE 2

RELATION OF WATER MAINS TO SEWERS

(a) Lateral Separation of Sewer and Water Mains. Water Mains shall be laid at least 10 feet laterally from existing or proposed sewer, unless local conditions or barriers prevent a 10 foot lateral separation in which case:

- The water main is laid in a separate trench, with the elevation of the bottom of the water main at least 18 inches above the top of the sewer or
- The water main is laid in the same trench as the sewer with the water main located at one side of a bench of undisturbed earth, and with the elevation of the bottom of the water main at least 18 inches above the top of the sewer.

(b) Crossing a Water Main over a Sewer. Whenever it is necessary for a water main to cross over a sewer, the water main shall be laid at such an elevation that the bottom of the water main is at least 18 inches above the top of the sewer, unless local conditions or barriers prevent an 18 inch vertical separation -- in which case both the water main and sewer shall be constructed of ferrous materials and with joints that are equivalent to water main standards for a distance of 10 feet on each side of the point of crossing.

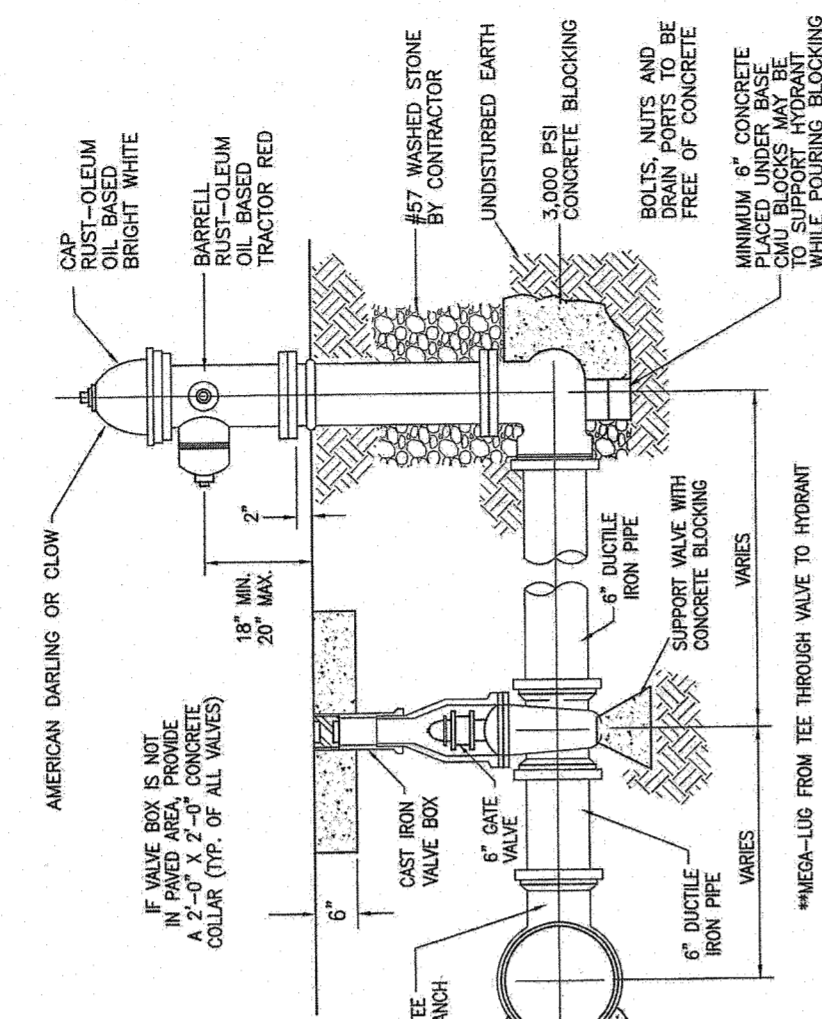
(c) Crossing a Water Main Under a Sewer. Whenever it is necessary for a water main to cross under a sewer, both the water main and the sewer shall be constructed of ferrous materials and with joints equivalent to water main standards for a distance of 10 feet on each side of the point of crossing. A section of water main pipe shall be centered at the point of crossing.

History Note: Statutory Authority G.S. 130-157 to 1611; Eff. January 1, 1977

CITY OF MEBANE STANDARD

RELATION OF WATER MAINS TO SEWERS
DATE: N.T.S. DATE: 5/15/02 DRAWN BY: H994

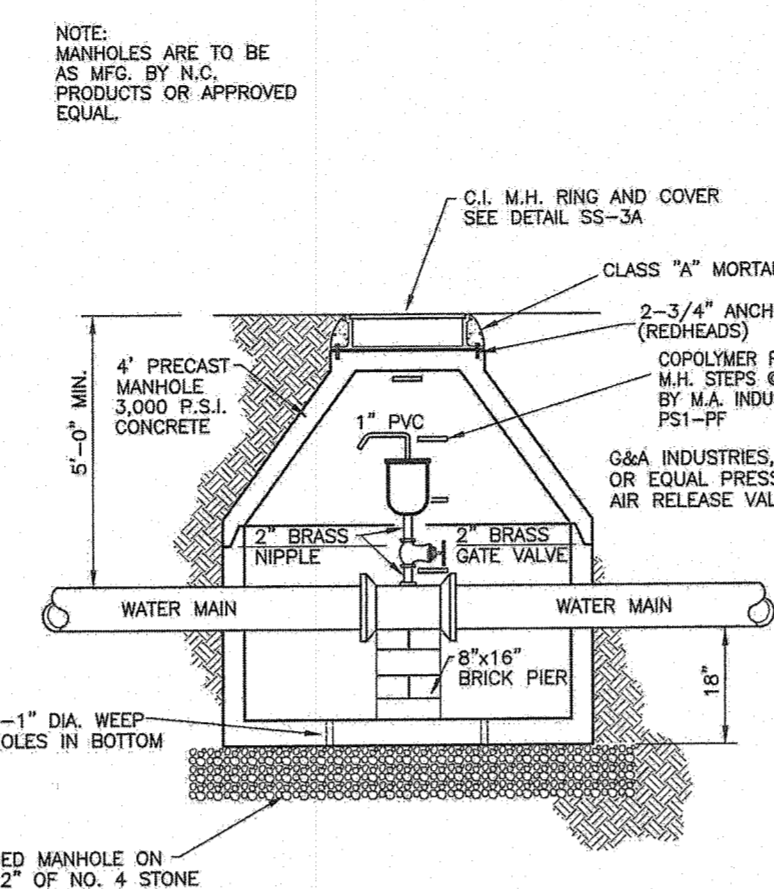
W-1



CITY OF MEBANE STANDARD

FIRE HYDRANT INSTALLATION
DATE: N.T.S. DATE: 03/22/02 DRAWN BY: H994

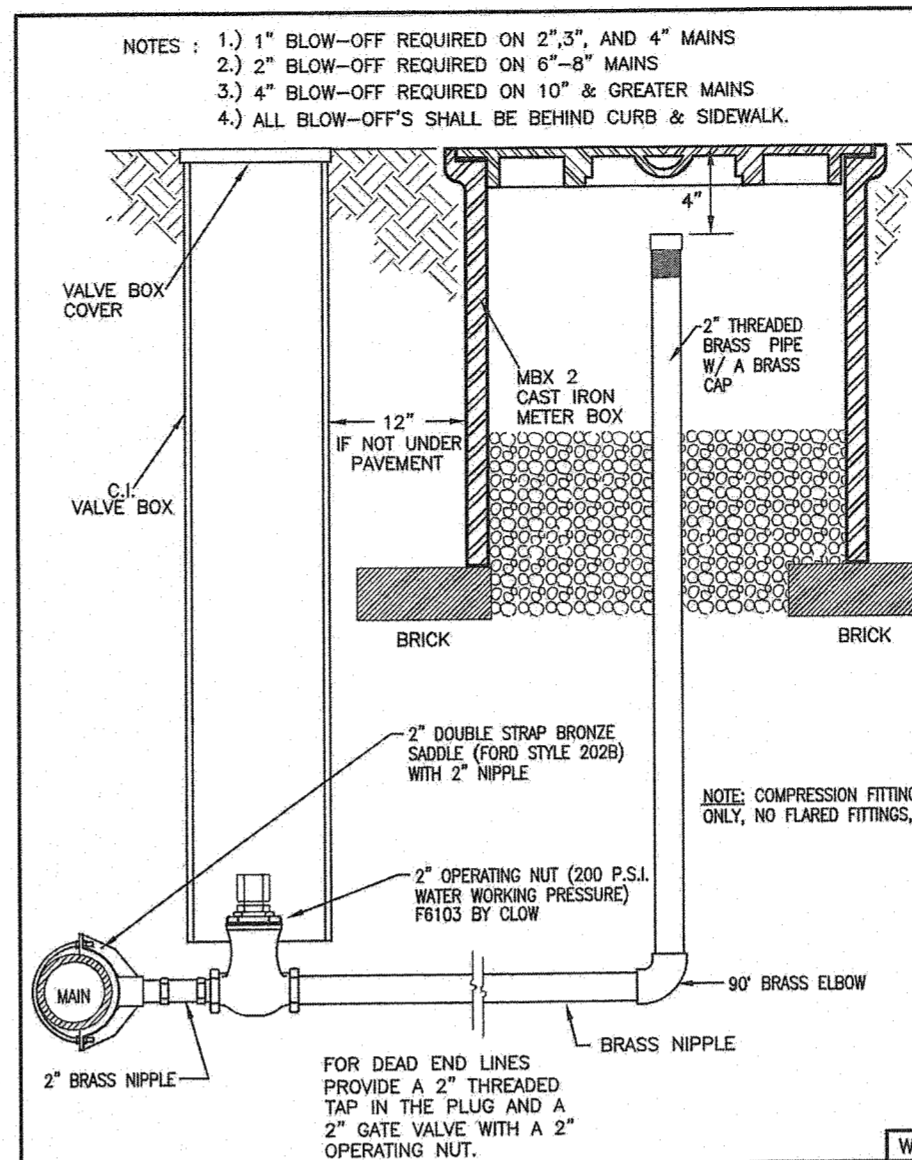
W-2



CITY OF MEBANE STANDARD

WATER MAIN AIR RELEASE MANHOLE
DATE: N.T.S. DATE: 11/05/04 DRAWN BY: H994

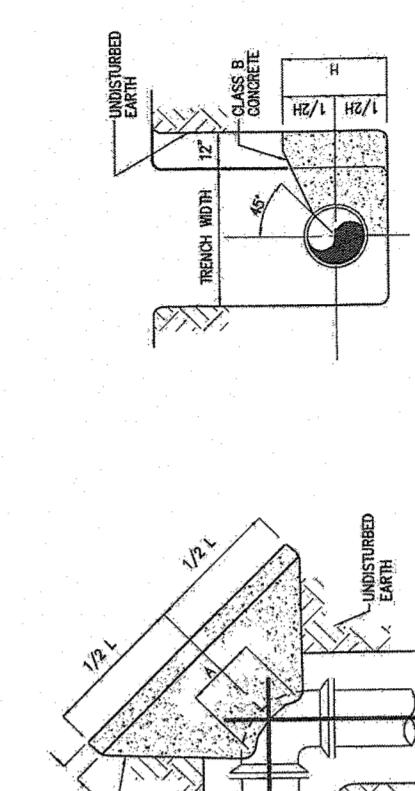
W-3



CITY OF MEBANE STANDARD

**2\"/>
DATE: N.T.S. DATE: 11/05/04 DRAWN BY: H994**

W-4



CITY OF MEBANE STANDARD

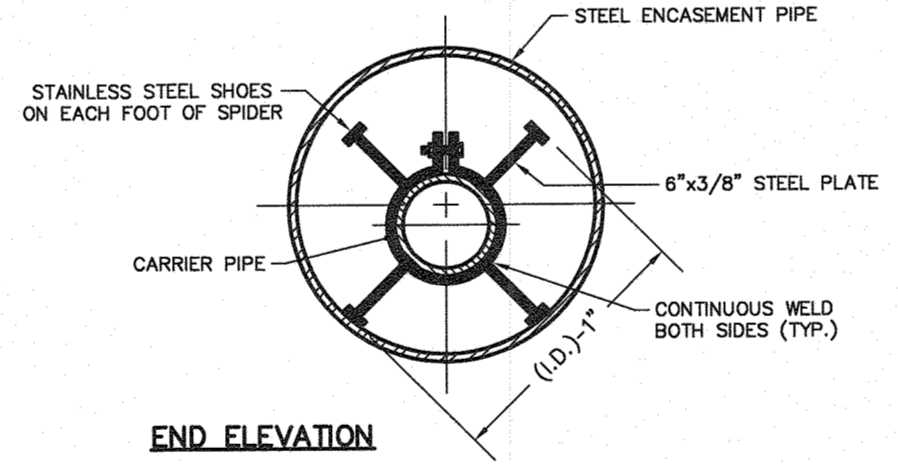
THRUST BLOCK - BENDS
DATE: N.T.S. DATE: 5/15/02 DRAWN BY: H994

W-6

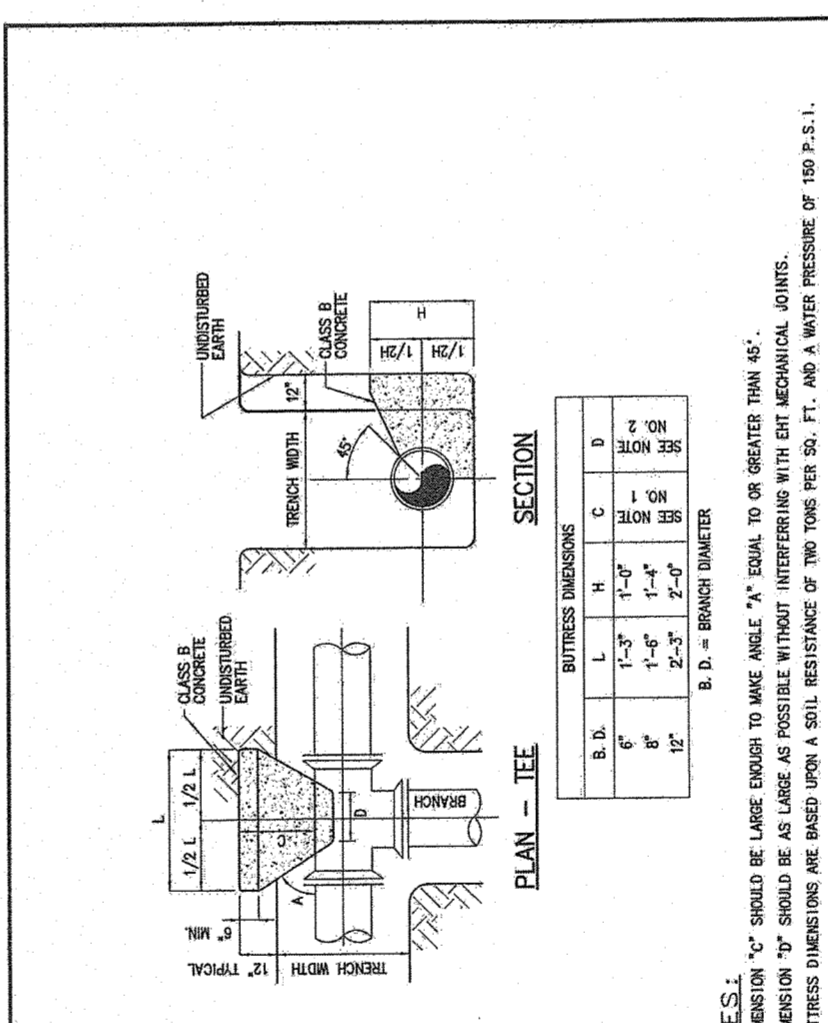
NOTES:

- NORMAL SPACING FOR SPIDERS IS 3 PER 18 FOOT LENGTH OF PIPE, SUPPORT AT EACH END AND A SUPPORT AT 9 FOOT CENTER.
- ENTIRE SPIDER ASSEMBLY TO BE BITUMINOUS COATED AFTER FABRICATION.
- FIELD MODIFY AS REQUIRED TO PROVIDE DESIGN SLOPE IN CARRIER PIPE.

PIPE SIZE	CASING SIZE	WALL THICK.
6"	10"	0.250"
8"	12"	0.250"
10"	16"	0.375"
12"	22"	0.375"



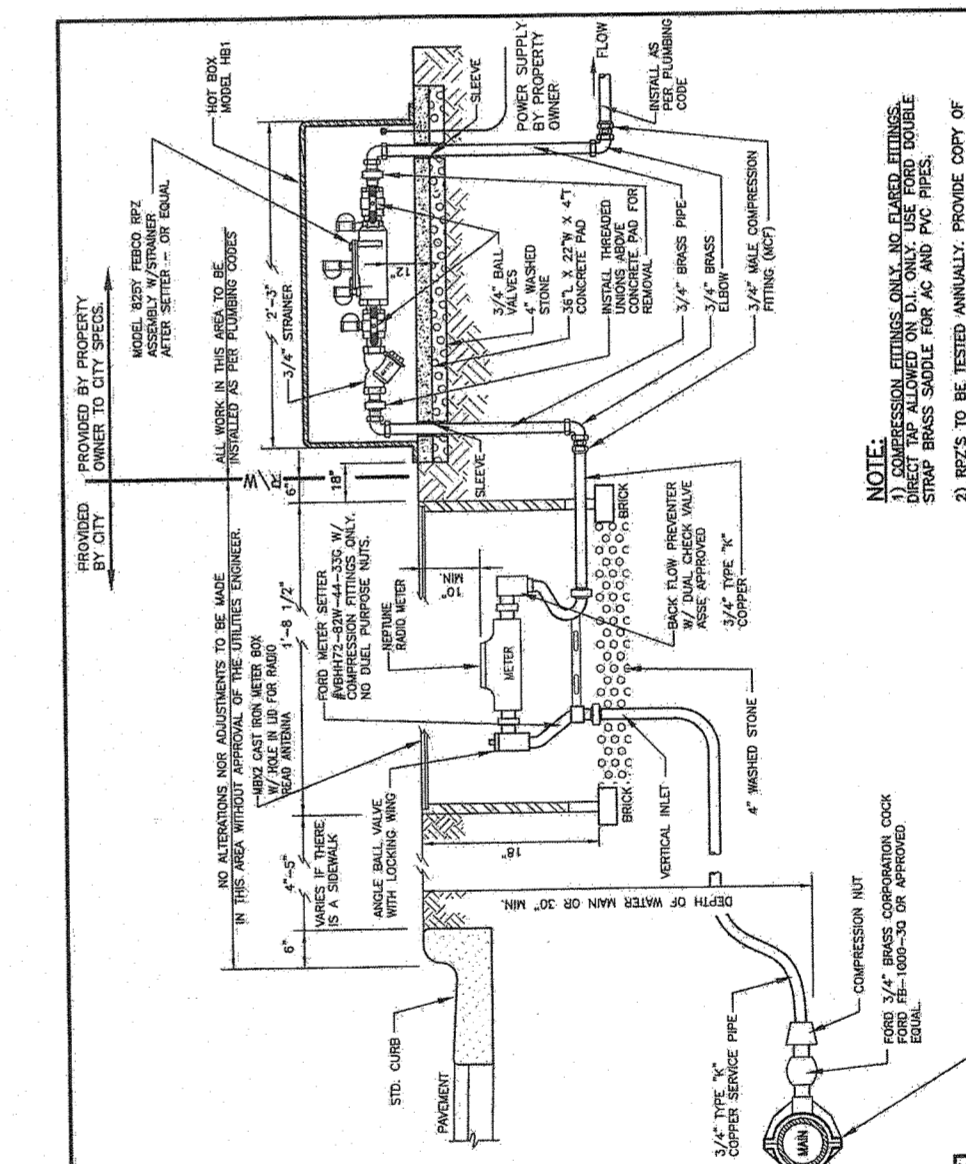
PIPE ENCASUREMENT DETAIL
NTS



CITY OF MEBANE STANDARD

THRUST BLOCK - TEES
DATE: N.T.S. DATE: 5/15/02 DRAWN BY: H994

W-7



CITY OF MEBANE STANDARD

**3/4\"/>
DATE: N.T.S. DATE: 03/15/10 DRAWN BY: H994**

W-10

ASHBURY - PHASE 2
 MEBANE, NORTH CAROLINA
WATER SERVICES DETAILS

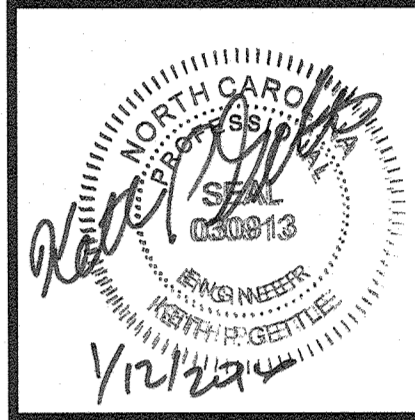
REV.	DATE	DESCRIPTION	BY	KPG
1	5-1-08	TEXT MODIFICATION	KPG	
2	10-14-14	MEBANE DETAILS UPDATE	KRM	
3	1-12-16	PER CITY COMMENT	KPG	

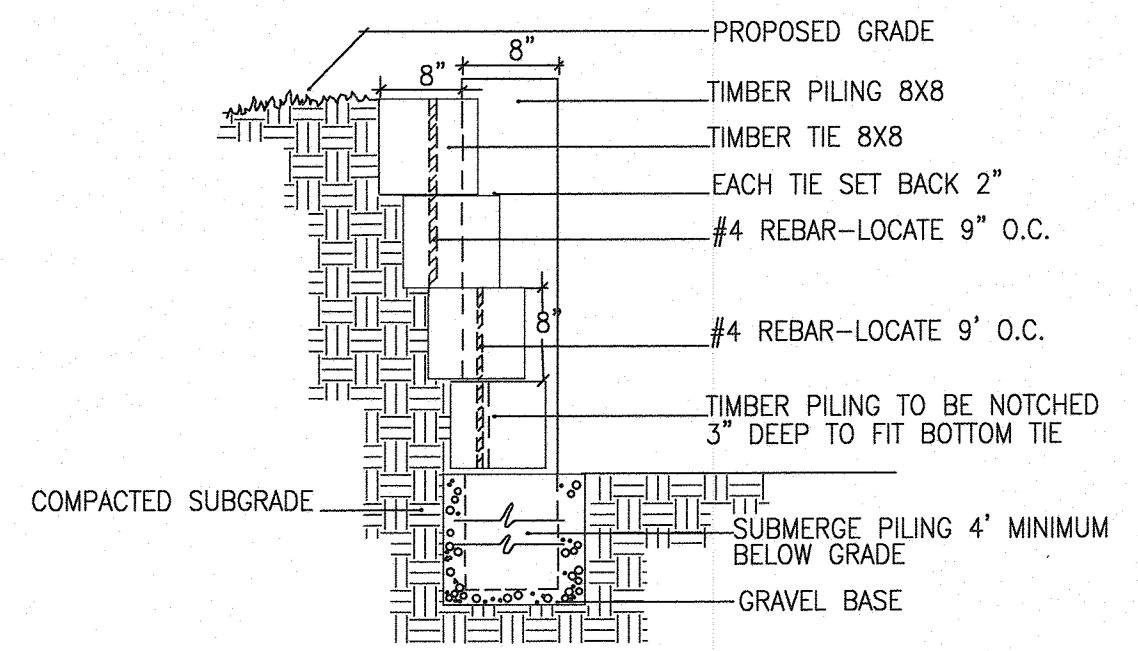
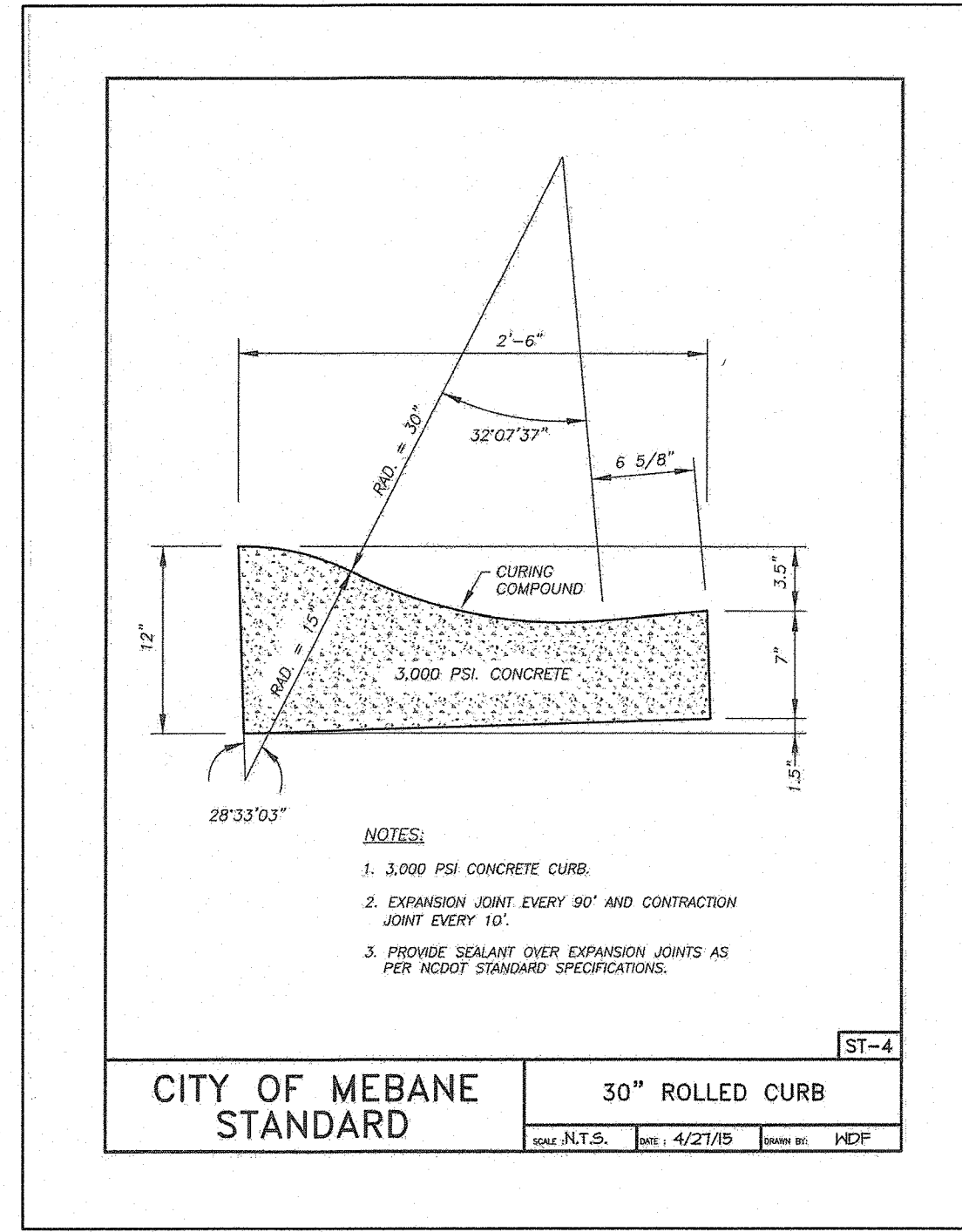
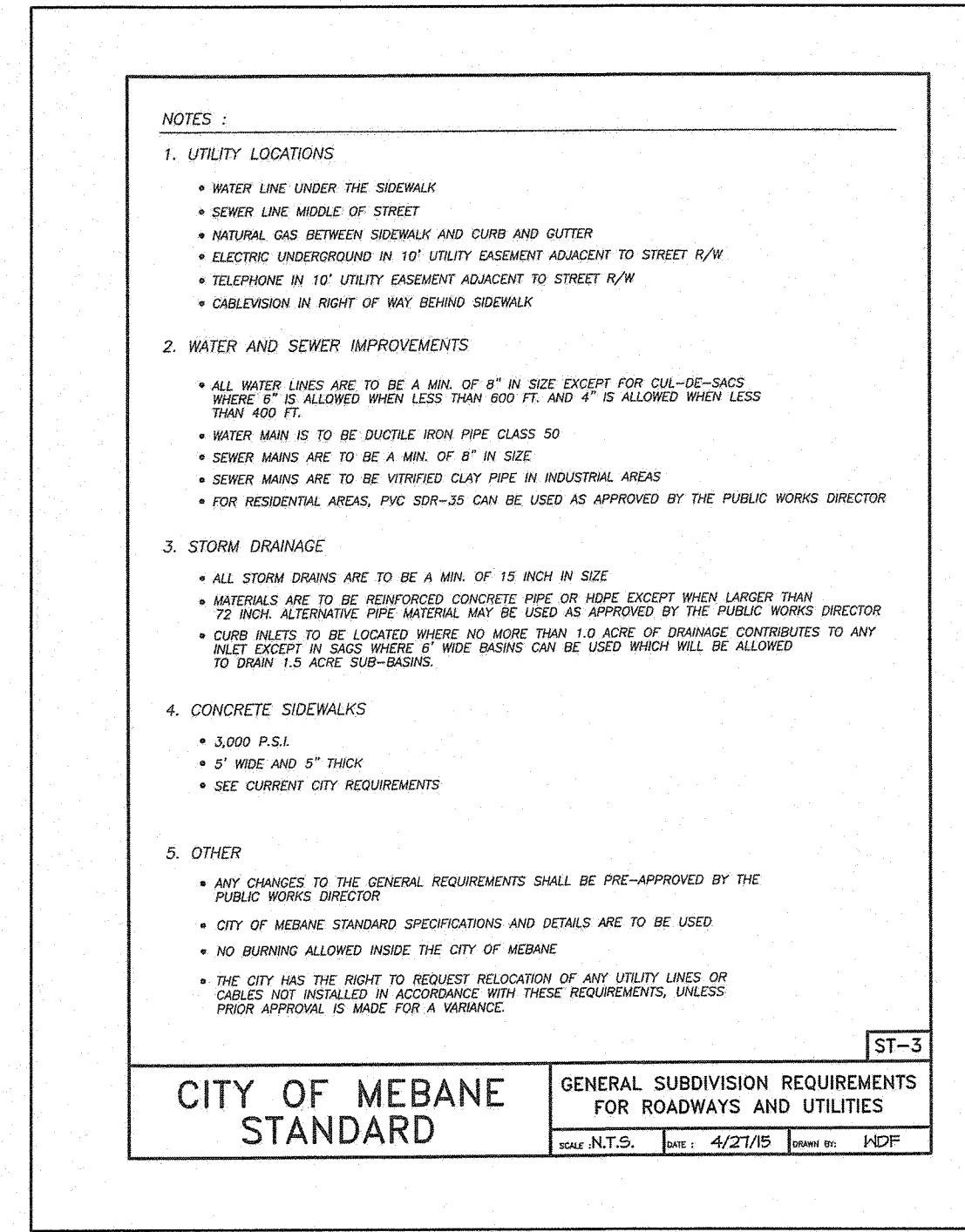
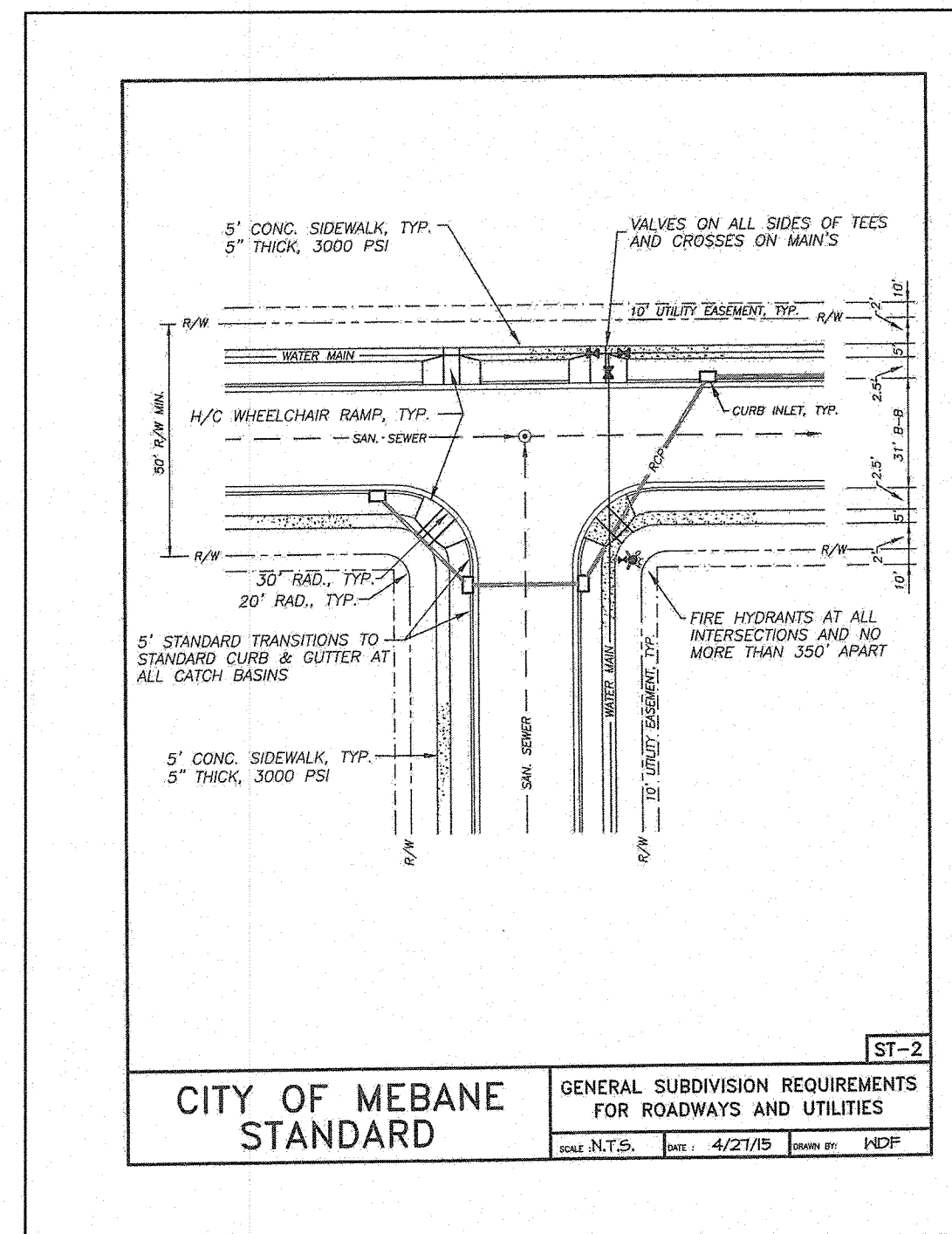
DATE: SEPTEMBER 20, 2007
 HORIZONTAL SCALE: N/A
 VERTICAL SCALE: N/A
 PROJECT MANAGER: KPG
 DRAWN BY: RUF
 PROJECT NO: 10222A
 DRAWING NAME: 10222-CD DETAILS-2438.DWG

THIS DRAWING AND THE DESIGN HEREON ARE THE PROPERTY OF CIVIL CONSULTANTS, INC. THE INFORMATION ON THIS DRAWING IS NOT FOR USE ON ANY OTHER SITE OR PROJECT. THE REPRODUCTION OR OTHER USE OF THIS DRAWING IN WHOLE OR IN PART, WITHOUT WRITTEN CONSENT OF CIVIL CONSULTANTS, INC. IS PROHIBITED.

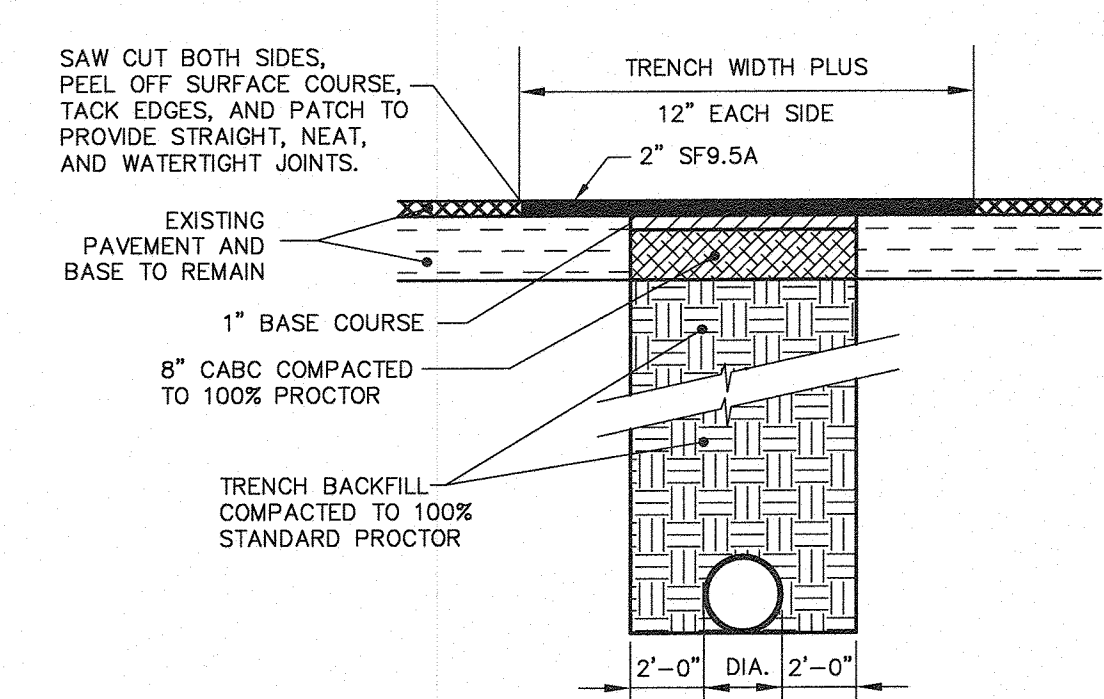
COPYRIGHT 2008 CIVIL CONSULTANTS, INC.
 SHEET NO.
D.A5
 CONSTRUCTION PHASE 2

CIVIL CONSULTANTS, INC.
 Civil Engineers
 Land Development Consultants
 3708 Lyckan Parkway Suite 201 Durham, NC 27707
 PH: (919) 490-1645 Fax: (919) 403-0536 www.civil-consultants.com

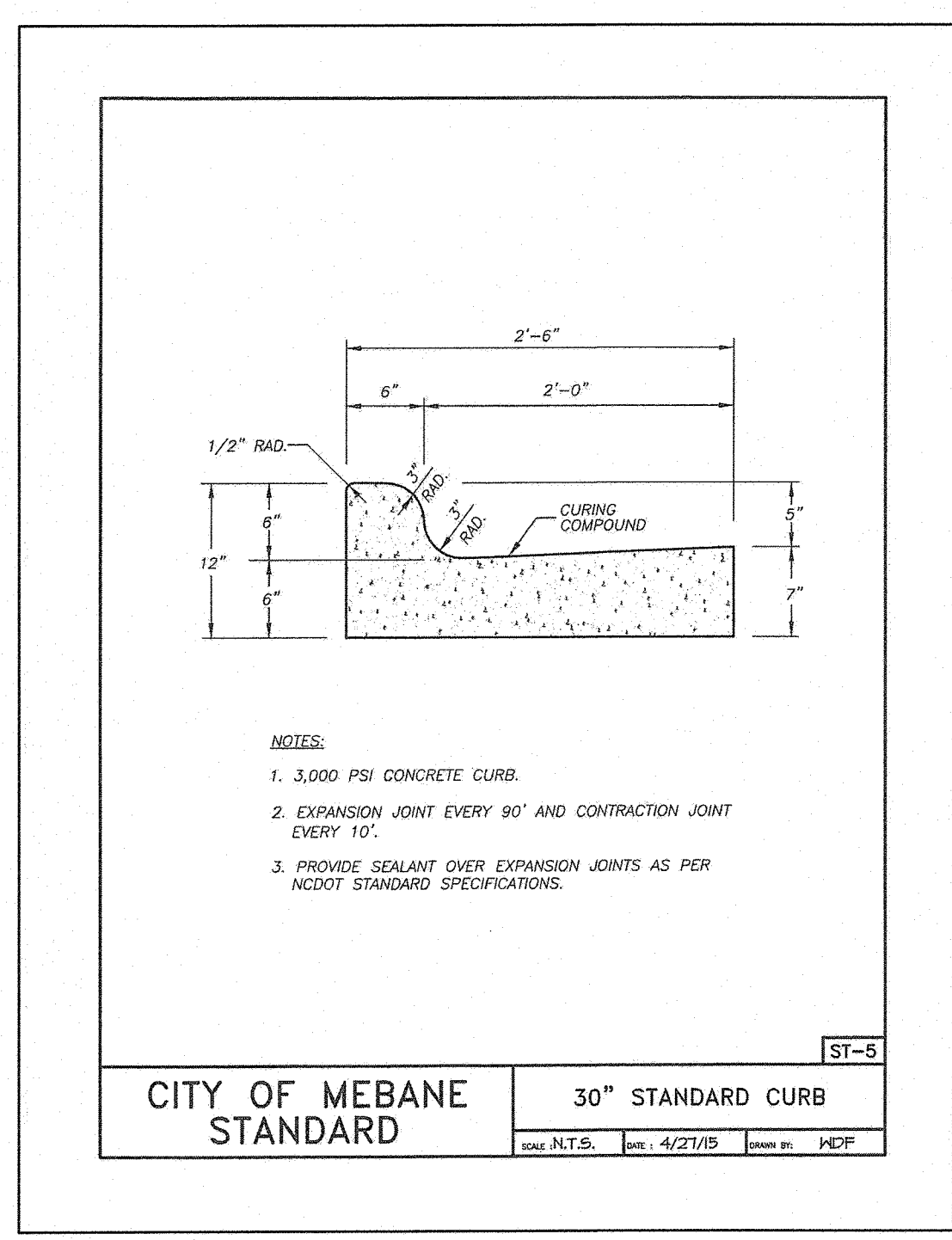




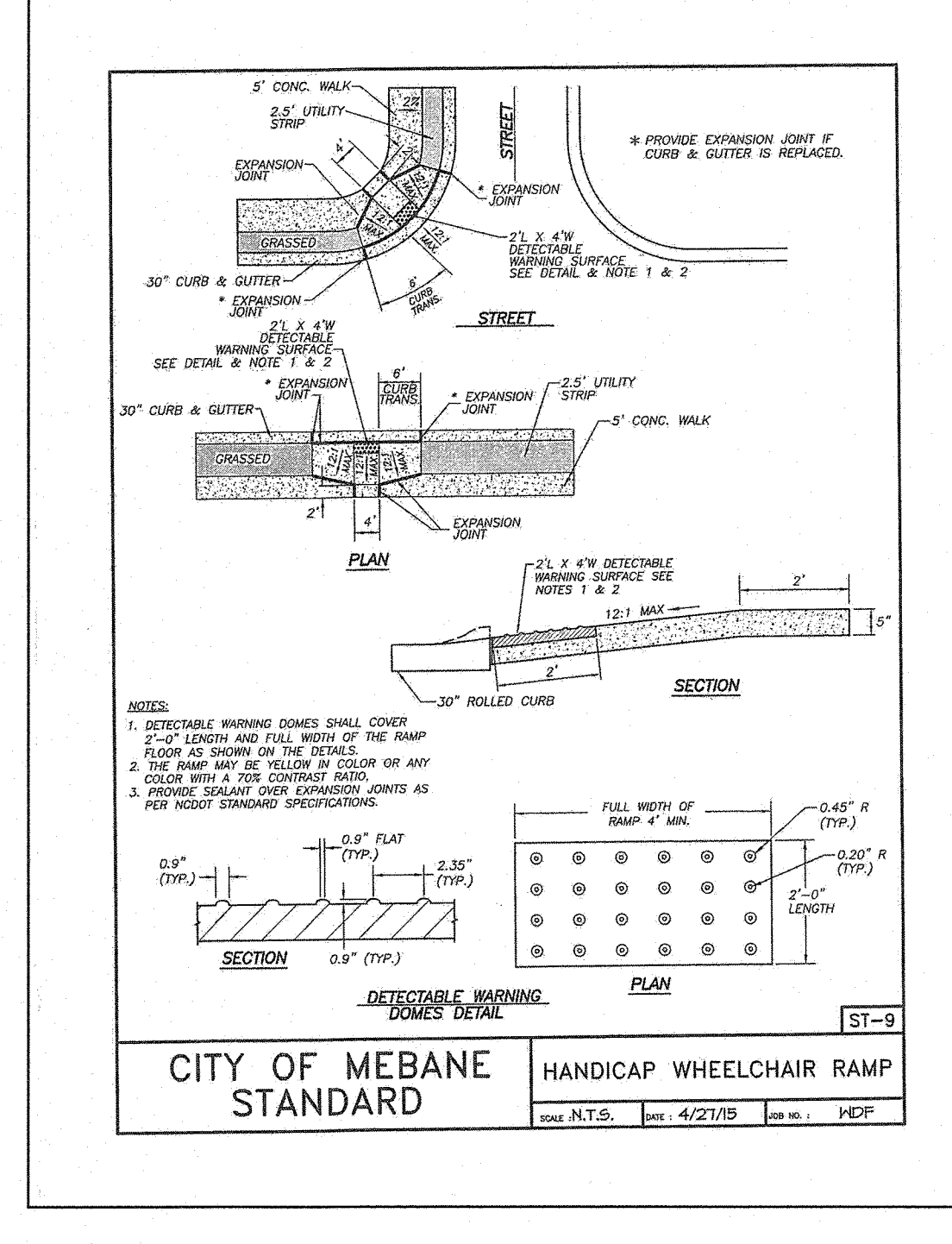
TIMBER RETAINING WALL
NTS
NOTE: SEE GRADING PLAN FOR GRADE ELEVATIONS



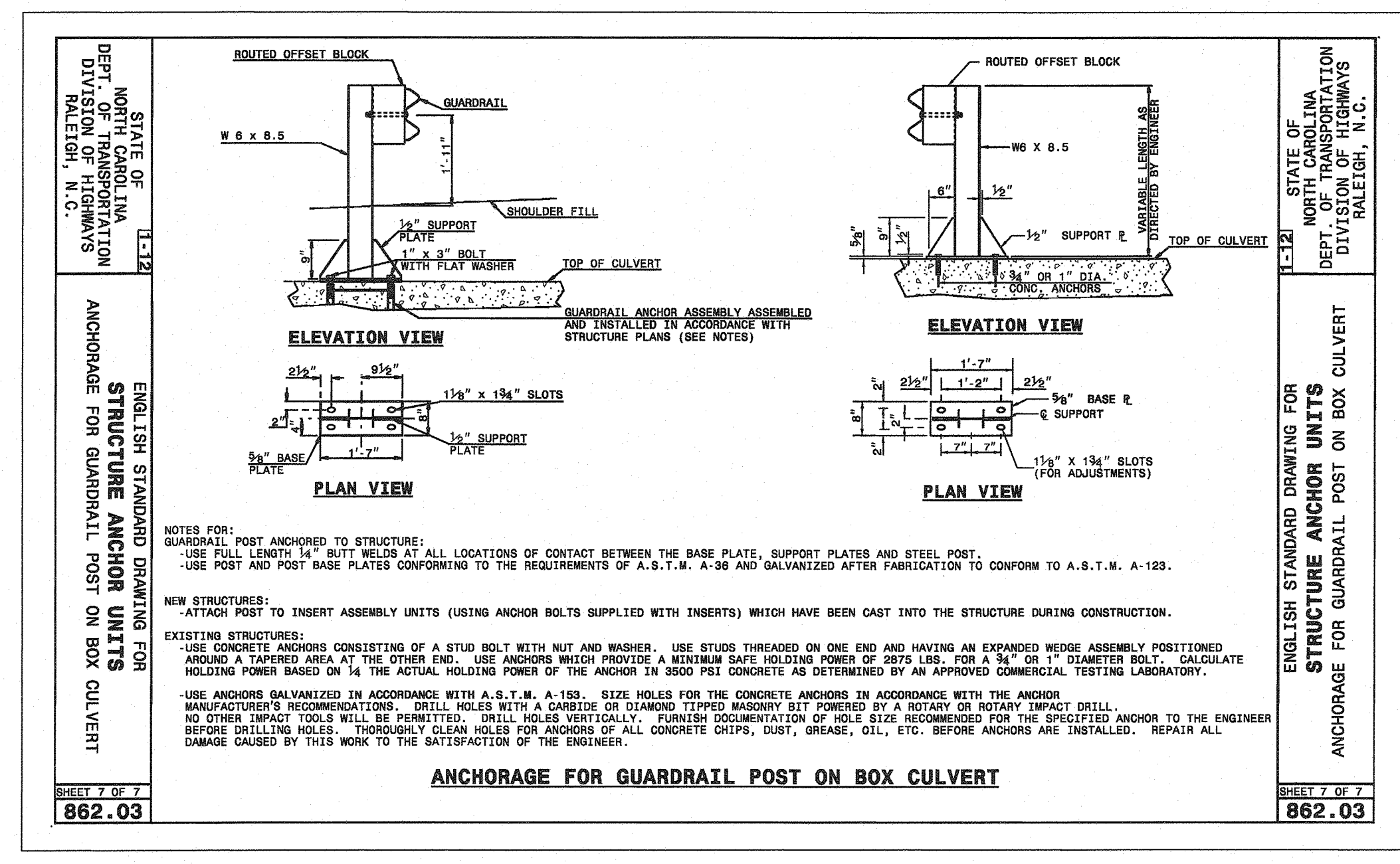
PAVEMENT CUT/TRENCH DETAIL
NTS



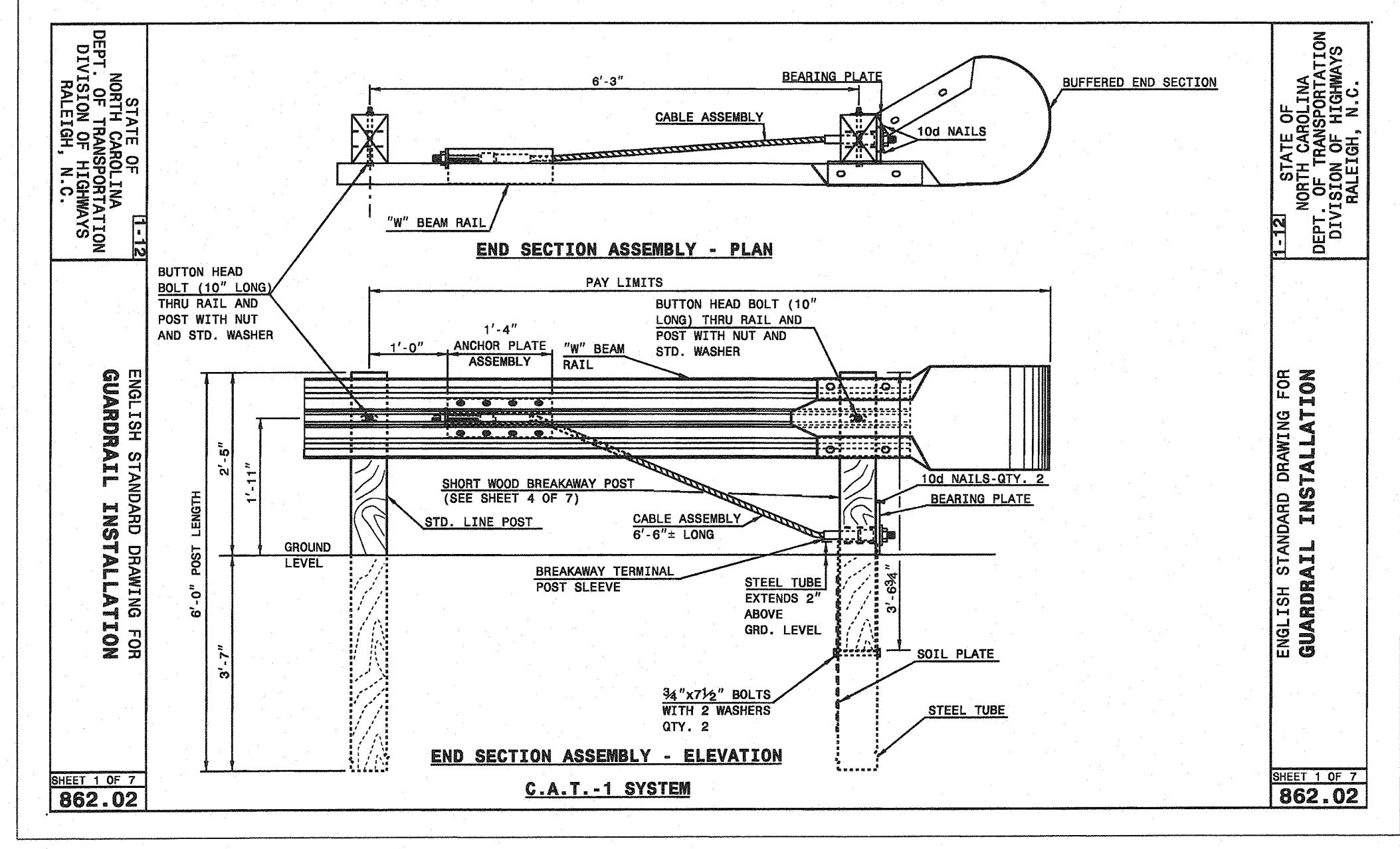
CITY OF MEBANE STANDARD 30" STANDARD CURB
NTS



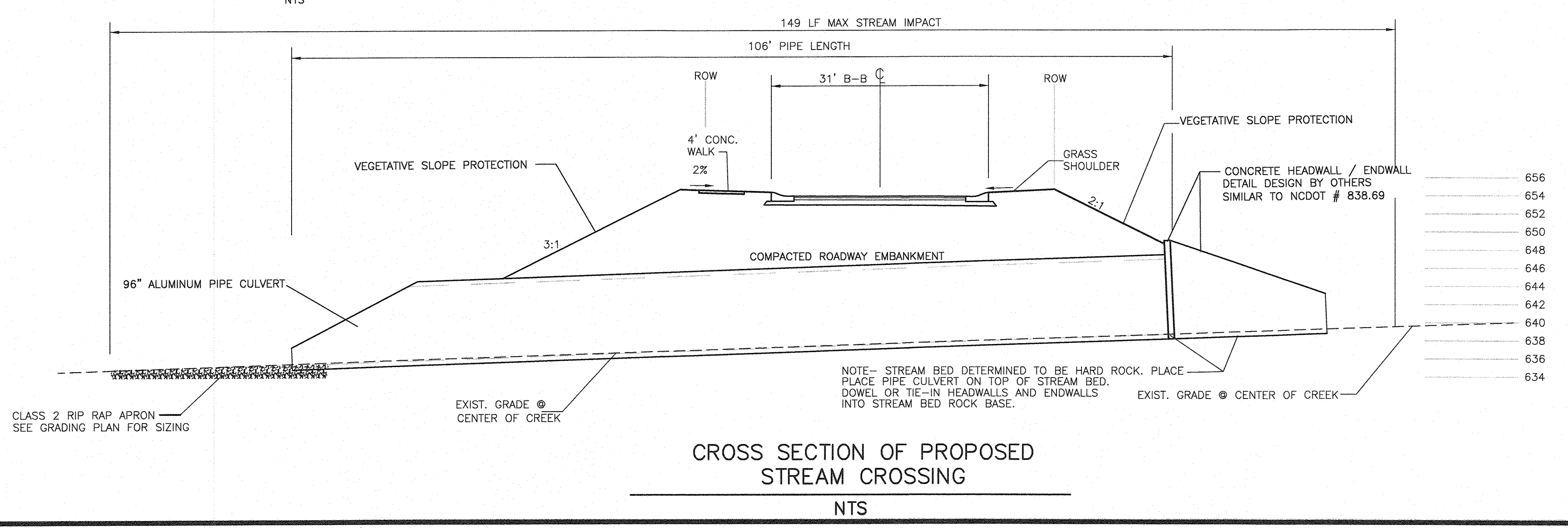
CITY OF MEBANE STANDARD HANDICAP WHEELCHAIR RAMP
NTS



ANCHORAGE FOR GUARDRAIL POST ON BOX CULVERT
SHEET 7 OF 7
862.03

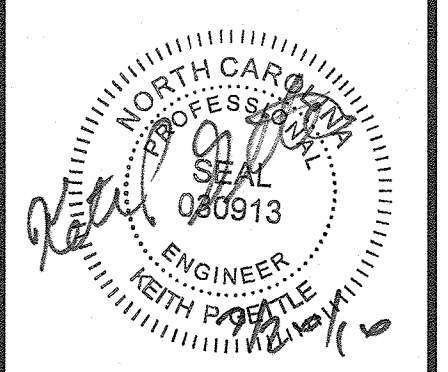


GUARDRAIL INSTALLATION
SHEET 1 OF 7
862.02



CROSS SECTION OF PROPOSED STREAM CROSSING
NTS

CIVIL CONSULTANTS INC.
Civil Engineers
Land Development Consultants
3708 Lyndon Parkway, Suite 301
Durham, NC 27707
PH: (919) 490-1645 FAX: (919) 403-0336
www.civil-consultants.com



ASHBURY - PHASE 2
MEBANE, NORTH CAROLINA
SITE AND ROADWAY DETAILS

REV.	DATE	DESCRIPTION	BY	KPG
1	5-1-08	PER NCDOT COMMENTS	KPG	
2	7-15-14	ADDED PIPE CROSSING DETAILS	KPG	
3	10-6-14	MEBANE DETAILS UPDATE	KRM	
4	1-12-16	PER CITY COMMENT	KPG	
5	7-21-16	REVISED PER CITY COMMENT	KPG	

DATE: SEPTEMBER 20, 2007
HORIZONTAL SCALE: N/A
VERTICAL SCALE: N/A
PROJECT MANAGER: KPG
DRAWN BY: RLF
PROJECT NO: 10022A
DRAWING NAME: 10022-CD DETAILS-5436.DWG

THIS DRAWING AND THE DESIGN HEREON ARE THE PROPERTY OF CIVIL CONSULTANTS, INC. THE INFORMATION ON THIS DRAWING IS NOT FOR USE ON ANY OTHER SITE OR PROJECT. THE REPRODUCTION OR OTHER USE OF THIS DRAWING IN WHOLE OR IN PART, WITHOUT WRITTEN CONSENT OF CIVIL CONSULTANTS, INC. IS PROHIBITED.
COPYRIGHT 2006 CIVIL CONSULTANTS, INC.

SHEET NO.
D.A6
CONSTRUCTION PHASE 2