

SITE DATA
JURISDICTION: CITY OF CHARLOTTE (ETJ)

TAX PARCEL: 053-03-220,053-03-210,053-03-205,
053-03-212,053-03-213,053-03-216,053-03-223 (PORTION)

TOTAL SITE AREA: 94.45 AC

EXISTING ZONING: R3

INTERIOR LOT CRITERIA PER R4 CLUSTER PROVISIONS
PER TREE SAVE ORDINANCE INCENTIVES

PROP. NUMBER OF LOTS: 251

R3 CLUSTER LOT CRITERIA (EXTERIOR LOTS):

MIN. FRONT SETBACK: 20' (SWIM & TREESAVE INCENTIVES)
MIN. SIDE YARD: 3' INTERNAL & EXTERNAL (SWIM & TREESAVE INCENTIVES)
MIN. REAR YARD: 30' INTERNAL & EXTERNAL
MIN. LOT SIZE: 8,000 SF
MIN. LOT WIDTH: 60'

R4 CLUSTER LOT CRITERIA (INTERNAL LOTS):

MIN. FRONT SETBACK: 20' (SWIM & TREESAVE INCENTIVES)
MIN. SIDE YARD: 3' INTERNAL & EXTERNAL (SWIM & TREESAVE INCENTIVES)
MIN. REAR YARD: 30' INTERNAL & EXTERNAL
MIN. LOT SIZE: 8,000 SF
MIN. LOT WIDTH: 50'

COMMON OPEN SPACE REQ'D: 9.4 AC (10%)
COMMON OPEN SPACE PROVIDED: 34.54 AC (37%)

TREE SAVE COMPUTATION (SEE SHEET 2 FOR DELINEATED AREAS)

TOTAL SITE AREA: 94.45 AC
BELMEADE DRIVE R/W DEDICATION: OUT AC
STORM/SEWER EASEMENT: 7.45 AC
EXISTING POND PRESERVED: 0.42 AC
AREA USED FOR CALC: 86.41 AC

25% TREESAVE AREA REQUIRED: 21.60 AC
TREESAVE AREA PROVIDED: 22.49 AC (26.0%)

DENSITY BONUS COMPUTATION:

TOTAL SITE AREA: 94.45 AC
TREESAVE AREA PROVIDED: 22.49 AC
SITE AREA USED FOR DENSITY CALC: 116.94 AC
MAX DENSITY: 116.94 AC ÷ 3 (LOTS/AC) = 350.8 ÷ 350 LOTS
LOTS PROPOSED: 251

THE ENTIRE SITE IS LOCATED IN THE LAKE WYLY WATERSHED
PROTECTED AREA HIGH DENSITY OPTION SELECTED.
STRUCTURAL BMPs ARE TO BE CONSTRUCTED TO MANAGE
RUNOFF IN AN DRAINAGE BASIN THAT EXCEED 24% BUILT UPON AREA.
UNDESIRABLE AVERAGING PROGRAM WILL NOT BE UTILIZED

MAXIMUM IMPERVIOUS AREA PER LOT HAS BEEN SPECIFIED ON
THE ATTACHED CHART (SEE SHEET 3)
IMPERVIOUS AREA WILL BE LIMITED ON EACH INDIVIDUAL LOT AS
SPECIFIED & WILL NOT BE TRICKED FOR THE OVERALL PROJECT.
UNDESIRABLE AVERAGING PROGRAM WILL NOT BE UTILIZED

TYPE 'A' LOTS - MAXIMUM IMPERVIOUS AREA = 3185 SF
TYPE 'B' LOTS - MAXIMUM IMPERVIOUS AREA = 2885 SF
SEE SHEET 3 FOR CHART

TOTAL IMPERVIOUS AREA VARIES BY DRAINAGE BASIN AS FOLLOWS:
(SEE SHEET 28 FOR DRAINAGE AREA MAP)

AREA 1
ON-SITE DA=14.98 AC
OFF-SITE DA=0.43 AC
TOTAL DA=15.40 AC
% IMPERVIOUS ON-SITE=43% (278,998 SF)
% IMPERVIOUS OFF-SITE (ASSUMED)=24% (4447 SF)
% IMPERVIOUS COMBINED=42% (283,445 SF)

AREA 2
ON-SITE DA=23.24 AC
OFF-SITE DA=0 AC
TOTAL DA=23.24 AC
% IMPERVIOUS ON-SITE=45% (458,193 SF)
% IMPERVIOUS OFF-SITE (ASSUMED)=24% (0 SF)
% IMPERVIOUS COMBINED=45% (458,193 SF)

AREA 3
ON-SITE DA=27.11 AC
OFF-SITE DA=14.75 AC
TOTAL DA=41.85 AC
% IMPERVIOUS ON-SITE=21% (249,374 SF)
% IMPERVIOUS OFF-SITE (ASSUMED)=24% (154,162 SF)
% IMPERVIOUS COMBINED=22% (403,536 SF)

AREA 4
ON-SITE DA=10.70 AC
OFF-SITE DA=6.00 AC
TOTAL DA=16.70 AC
% IMPERVIOUS ON-SITE=23.99% (11,811 SF)
% IMPERVIOUS OFF-SITE (ASSUMED)=24% (62,697 SF)
% IMPERVIOUS COMBINED=23.99% (74,508 SF)

AREA 5
ON-SITE DA=12.68 AC
OFF-SITE DA=NA
TOTAL DA=12.68 AC
% IMPERVIOUS ON-SITE=8% (45,768 SF)
% IMPERVIOUS OFF-SITE (ASSUMED)=NA
% IMPERVIOUS COMBINED=8% (45,768 SF)

AREA 6
ON-SITE DA=3.30 AC
OFF-SITE DA=0 AC
TOTAL DA=3.30 AC
% IMPERVIOUS ON-SITE=23.94% (34,431 SF)
% IMPERVIOUS OFF-SITE (ASSUMED)=24% (0 SF)
% IMPERVIOUS COMBINED=23.94% (34,431 SF)

AREA 7 - (LOT 130 REATTAINED FOR FUTURE SALE)
ON-SITE DA=2.07 AC
OFF-SITE DA=0 AC
TOTAL DA=2.07 AC
% IMPERVIOUS ON-SITE=0% (0 SF)
% IMPERVIOUS OFF-SITE (ASSUMED)=24% (0 SF)
% IMPERVIOUS COMBINED=0% (0 SF)

GENERAL NOTES

1. PRELIMINARY PLAN APPROVED UNDER THE PROVISIONS OF THE
SUBDIVISION ORDINANCE WILL BE VALID FOR A PERIOD OF THREE
YEARS. FOR SUCH APPROVAL TO REMAIN VALID BEYOND THREE
YEARS, THE SITE IN FURTHERANCE OF THE PLAN IS REQUIRED AS
EXPLAINED MORE FULLY IN SECTION 6.5.30 OF THE CHARLOTTE
SUBDIVISION ORDINANCE.

2. NO ON-SITE DEMOLITION OR STUMP BURIAL WILL BE ALLOWED. ALL
MATERIALS WILL BE DISPOSED OF IN AN APPROVED OFF-SITE LANDFILL.

3. THE DEVELOPMENT WILL ADHERE TO ALL DIMENSIONAL REQUIREMENTS SET
FORTH FOR THEIR RESPECTIVE DISTRICTS IN THE CITY OF CHARLOTTE ZONING
ORDINANCE.

4. ALL PUBLIC STREETS WITHIN THE DEVELOPMENT WILL BE CONSTRUCTED TO
THE CITY OF CHARLOTTE ETJ STANDARDS IN ORDER TO BE DEDICATED PUBLIC
ROADWAYS.

5. CURB - MIN. 20' RADIUS R/W MIN. 20' RADIUS FOR LOCAL ROADS
CURB - MIN. 30' RADIUS R/W MIN. 30' FOR COLLECTOR ROADS
UNLESS OTHERWISE NOTED.

6. ALL ROAD IMPROVEMENTS AT BELMEADE DRIVE ARE TO BE COORDINATED WITH
THE CITY OF CHARLOTTE ENGINEERING DEPARTMENT PRIOR TO CONSTRUCTION.

7. THE PURPOSE OF THE STORM DRAINAGE EASEMENT (SDE) IS TO PROVIDE STORM
WATER CONVEYANCE AND ANY STRUCTURES AND/OR OBSTRUCTION TO STORM
WATER FLOW IS PROHIBITED.

8. ALL CONSTRUCTION SHALL CONFORM TO CITY OF CHARLOTTE STANDARDS.

9. THE DEVELOPER SHALL MAINTAIN EACH STREAM, CREEK OR BACKWASH
CHANNEL IN AN UNDISTURBED STATE AND SHALL REMOVE FROM
THE CHANNEL AND BANKS OF THE STREAM ALL DEBRIS, LOGS,
TIMBER, JUNK, AND OTHER ACCUMULATIONS.

10. SUBSURFACE DRAINAGE FACILITIES MAY BE REQUIRED IN THE STREET
RIGHT-OF-WAY IF DEEMED NECESSARY BY THE INSPECTOR.

11. APPROVAL OF THIS PLAN IS NOT AUTHORIZATION TO GRADE ADJACENT
PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFFSITE GRADING,
PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS.

12. CURB & GUTTER SHOWN ON PLANS ALONG BELMEADE DRIVE MAY BE
ADJUSTED BASED UPON FIELD STAKING BY CITY ENGINEERING. ASSOCIATED STORM
DRAINAGE MAY ALSO REQUIRE MODIFICATION BASED UPON FIELD CONDITIONS.

DEVELOPER: LANDCRAFT PROPERTIES
1435 WEST MOREHEAD ST, SUITE 135
CHARLOTTE, NC 28226
CONTACT: MATTHEW WILSON
704-343-8885

ENGINEER: INSITE ENGINEERING & SURVEYING
8041 CORPORATE CENTER DRIVE, SUITE 200
CHARLOTTE, NC 28226
CONTACT: JOEL MADDEN
704-540-4706

REVISION
**APPROVED FOR
CONSTRUCTION**
CHARLOTTE-MECKLENBURG PLANNING DEPARTMENT
BY: Joshua Weaver 11-22-2016 1 of 2



FINAL
APPROVAL

ENGINEERING
PCO / DETENTION / DRAINAGE PLAN

EROSION CONTROL

URBAN FORESTRY
TREE ORDINANCE

CDOT

NOTE: SCHEDULE PRE-CONSTRUCTION MEETING
AT LEAST 48 HRS. PRIOR TO ANY LAND
DISTURBING ACTIVITY USING THE ONLINE
FORM AT <http://development.charmeck.org>

APPROVED
By mchapman at 10:16 am, Nov 08, 2016

APPROVED
By Stan Armstrong at 11:06 am, Nov 07, 2016

TREE SAVE AREA/
STOCKPILE SUBMITTAL



DocuSigned by:
Sarah Stewart
978175070559463



7/25/2016

EROSION CONTROL
APPROVED

CITY OF CHARLOTTE ENGINEERING

DATE: 12-6-07
BY: TLF

CONTACT: BRAD LOVELAND
AT: 517-2012

FOR A PRE-CONSTRUCTION MEETING 48 HOURS
PRIOR TO ANY LAND DISTURBING ACTIVITY

CLARIAN CORP. &
ALISA BRADSHAW
053-02-57
DB 5396 PG 175

CHARBECK PROPERTIES, LLC
053-26-05
DB 9020 PG 888

THE RAPIDS AT BELMEADE

MECKLENBURG COUNTY, NORTH CAROLINA

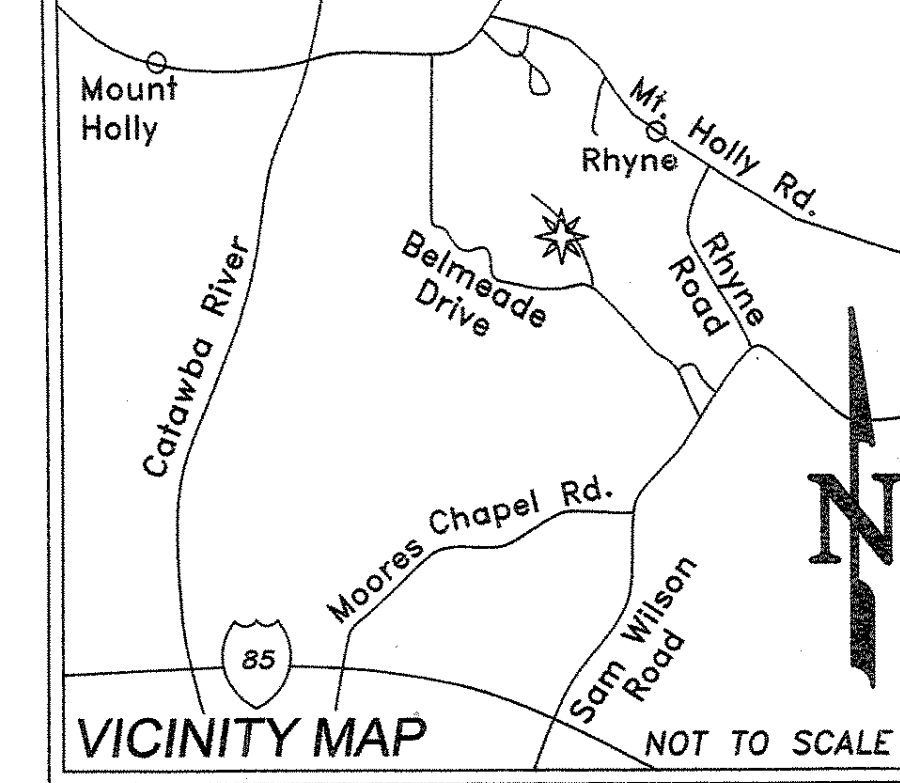
CITY OF CHARLOTTE, ETJ

CITY OF CHARLOTTE ENGINEERING
PRELIMINARY SUBDIVISION
PLAN APPROVED

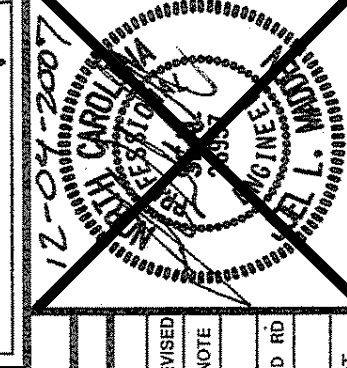
DATE: 12-6-07

BY: Tom Ferguson

AT: (704) 336-3281



DATE	12-06-07
TECHNICIAN	CLL
CHECKED BY	JLM
SCALE	1"=200'
PROJECT NO.	
DRAWING TITLE	
DATE	12-06-07
BY	CLL
DATE	12-06-07
BY	CLL
DATE	12-06-07
BY	CLL



NO.	DATE	REVISIONS
1	12-06-07	REVISED PER COMMENTS SHEETS 16-18 REVISED
2	11-29-07	REVISED PER DOT COMMENTS SHEET 16 REVISED
3	11-29-07	REVISED PER DOT COMMENTS SHEET 16 REVISED
4	11-29-07	REVISED PER DOT COMMENTS SHEET 16 REVISED
5	11-29-07	REVISED PER DOT COMMENTS SHEET 16 REVISED
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44	11-29-07	REVISED PER DOT COMMENTS SHEET 16 REVISED
45	11-29-07	REVISED PER DOT COMMENTS SHEET 16 REVISED

PROJECT
The Rapids at Belmeade
Belmeade Dr. (S.R. 1000); Charlotte, NC 28214

CLIENT
LandCraft Properties, Inc.
1435 West Morehead St., Suite 135; Charlotte, NC 28226

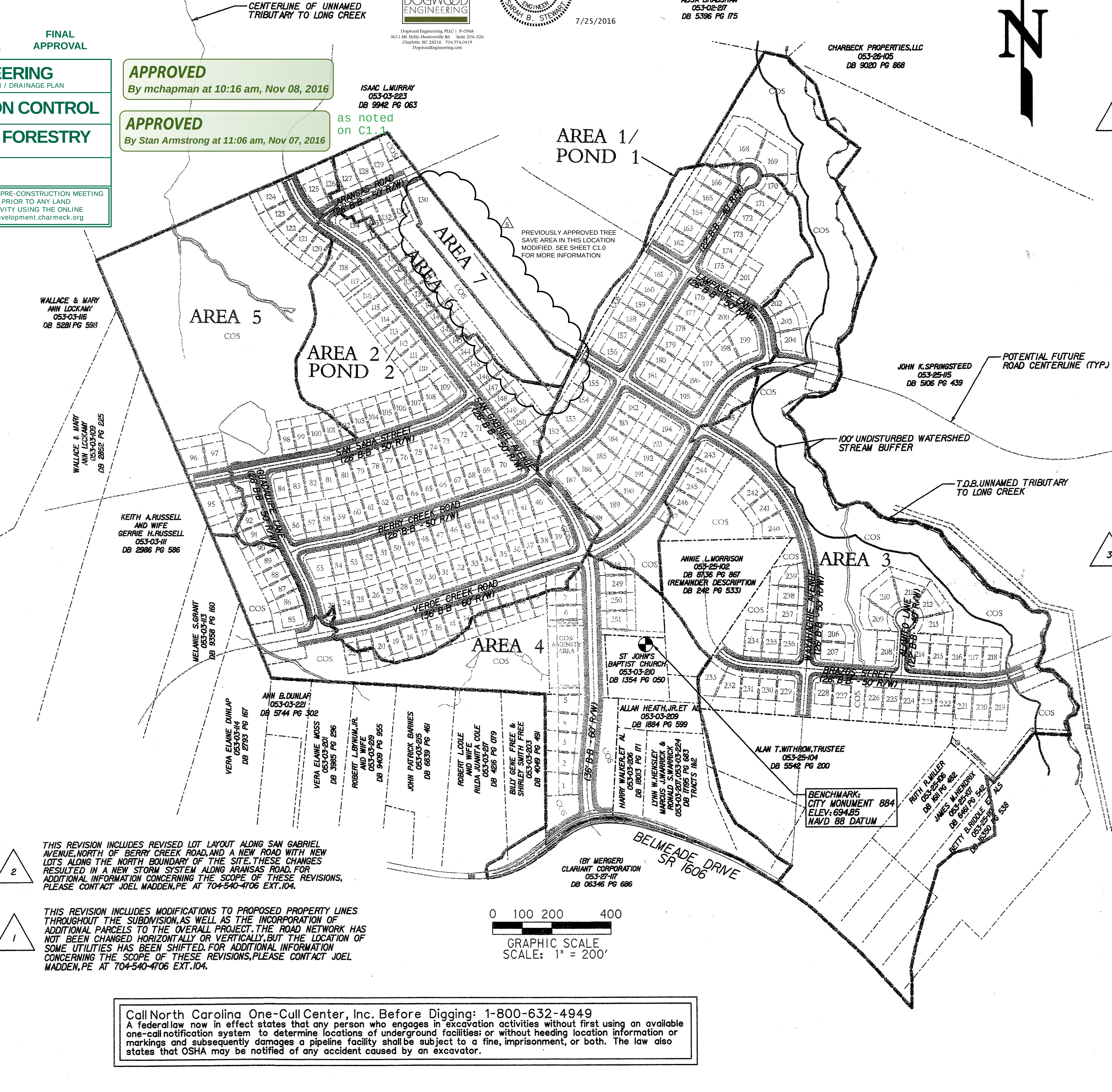
OVERALL SITE PLAN
REVISED 07.19.2016 FOR UPDATED TREE
SAVE AND STOCKPILE AREAS

INSITE
Engineering & Surveying
Suite 200
Charlotte, NC 28226
Phone: (704) 540-4706
Fax: (704) 540-4708

- SHEET INDEX
- OVERALL SITE PLAN
 - TREE SAVE AND TREE PLANTING PLAN
 - SITE PLAN 1
 - SITE PLAN 2
 - SITE PLAN 3
 - SITE PLAN 4
 - BELMEADE DRIVE ROAD IMPROVEMENTS
 - BELMEADE DRIVE CROSS SECTIONS (1 OF 2)
 - BELMEADE DRIVE CROSS SECTIONS (2 OF 2)
 - BELMEADE DRIVE TRAFFIC CONTROL PLAN & PAVEMENT MARKING PLAN
 - BELMEADE DRIVE ROAD IMPROVEMENTS GRADING PLAN
 - VERDE CREEK ROAD (1 OF 3) PLAN & PROFILE
 - VERDE CREEK ROAD (2 OF 3) PLAN & PROFILE
 - VERDE CREEK ROAD (3 OF 3) PLAN & PROFILE
 - SAN GABRIEL AVENUE (1 OF 3) PLAN & PROFILE
 - SAN GABRIEL AVENUE (2 OF 3) PLAN & PROFILE
 - SAN GABRIEL AVENUE (3 OF 3) PLAN & PROFILE
 - WAXAHACHIE ROAD (1 OF 2) PLAN & PROFILE
 - WAXAHACHIE ROAD (2 OF 2) PLAN & PROFILE
 - BERRY CREEK ROAD (1 OF 2) PLAN & PROFILE
 - BERRY CREEK ROAD (2 OF 2) PLAN & PROFILE
 - BRAZOS STREET (1 OF 2) PLAN & PROFILE
 - BRAZOS STREET (2 OF 2) PLAN & PROFILE
 - SAN SABA STREET (1 OF 2) PLAN & PROFILE
 - SAN SABA STREET (2 OF 2) PLAN & PROFILE
 - LAMPASAS LANE & ALAMITO LANE PLAN & PROFILE
 - 21a. ARANSAS PLAN & PROFILE
 - STORM DRAINAGE & GRADING PLAN 1
 - STORM DRAINAGE & GRADING PLAN 2
 - STORM DRAINAGE & GRADING PLAN 3
 - STORM DRAINAGE & GRADING PLAN 4
 - DRAINAGE AREA MAP (1 OF 2)
 - DRAINAGE AREA MAP (2 OF 2)
 - DRAINAGE BASINS: POND & IMPERVIOUS CALCULATIONS
 - EROSION & SEDIMENTATION CONTROL PLAN 1 - PHASE 1
 - EROSION & SEDIMENTATION CONTROL PLAN 2 - PHASE 1
 - EROSION & SEDIMENTATION CONTROL PLAN 3 - PHASE 1
 - EROSION & SEDIMENTATION CONTROL PLAN 4 - PHASE 1
 - EROSION & SEDIMENTATION CONTROL PLAN 1 - PHASE 2
 - EROSION & SEDIMENTATION CONTROL PLAN 2 - PHASE 2
 - EROSION & SEDIMENTATION CONTROL PLAN 3 - PHASE 2
 - EROSION & SEDIMENTATION CONTROL PLAN 4 - PHASE 2
 - STANDARD DETAILS (1 OF 4)
 - STANDARD DETAILS (2 OF 4) & STORM CONTROL
 - STANDARD DETAILS (3 OF 4)
 - STANDARD DETAILS (4 OF 4)
 - HEC-RAS CROSS-SECTIONS (1 OF 5)
 - HEC-RAS CROSS-SECTIONS (2 OF 5)
 - HEC-RAS CROSS-SECTIONS (3 OF 5)
 - HEC-RAS CROSS-SECTIONS (4 OF 5)
 - HEC-RAS CROSS-SECTIONS (5 OF 5)

APPROVED FOR
CONSTRUCTION
DATE: 12/12/16
BY: M. J. JESS
AT: (704) 350-8519

REVISION #2 to Ph. 1
and new Ph. 2



THIS REVISION INCLUDES REVISED LOT LAYOUT ALONG SAN GABRIEL
AVENUE, NORTH OF BERRY CREEK ROAD, AND A NEW ROAD WITH NEW
LOTS ALONG THE NORTH BOUNDARY OF THE SITE. THESE CHANGES
RESULTED IN A NEW STORM SYSTEM ALONG ARANSAS ROAD. FOR
ADDITIONAL INFORMATION CONCERNING THE SCOPE OF THESE REVISIONS,
PLEASE CONTACT JOEL MADDEN, PE AT 704-540-4706 EXT. 104.

THIS REVISION INCLUDES MODIFICATIONS TO PROPOSED PROPERTY LINES
THROUGHOUT THE SUBDIVISION, AS WELL AS THE INCORPORATION OF
ADDITIONAL PARCELS TO THE OVERALL PROJECT. THE ROAD NETWORK HAS
NOT BEEN CHANGED HORIZONTALLY OR VERTICALLY, BUT THE LOCATION OF
SOME UTILITIES HAS BEEN SHIFTED. FOR ADDITIONAL INFORMATION
CONCERNING THE SCOPE OF THESE REVISIONS, PLEASE CONTACT JOEL
MADDEN, PE AT 704-540-4706 EXT. 104.

Call North Carolina One-Cull Center, Inc. Before Digging: 1-800-632-4949
A federal law now in effect states that any person who engages in excavation activities without first using an available
one-call notification system to determine locations of underground facilities; or without heeding location information or
markings and subsequently damages a pipeline facility shall be subject to a fine, imprisonment, or both. The law also
states that OSHA may be notified of any accident caused by an excavator.

EROSION CONTROL NOTES

1. REFER TO SHEET C1.2 FOR EROSION CONTROL DEVICE DETAILS. REFER TO CHARLOTT-MECKLENBURG LAND DEVELOPMENT STANDARDS FOR MORE INFORMATION.
2. ALL "STD." NUMBERS REFER TO THE CHARLOTTE LAND DEVELOPMENT STANDARDS MANUAL.
3. ANY GRADING BEYOND THE DENUDEED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
4. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY ENGINEERING DEPARTMENT.
5. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 10' REQUIRE ADEQUATE TERRACING.
6. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3:1 SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
7. GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
8. A GRADING PLAN MUST BE SUBMITTED FOR ANY LOT GRADING EXCEEDING ONE ACRE THAT WAS NOT PREVIOUSLY APPROVED.
9. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS.
10. THE DEVELOPER SHALL MAINTAIN EACH STREAM, CREEK, OR BACKWASH CHANNEL IN AN UNOBSERVED STATE AND SHALL REMOVE FROM THE CHANNEL AND BANKS OF THE STREAM ALL DEBRIS, LOGS, TIMBER, JUNK AND OTHER ACCUMULATIONS.
11. ON-SITE BURIAL PITS REQUIRE AN ON-SITE DEMOTION LANDFILL PERMIT FROM ZONING ADMINISTRATOR.
12. ADDITIONAL SILT FENCING ALONG LOT LINES MAY BE REQUIRED IF SURROUNDING LOTS ARE NOT UNDER CONSTRUCTION. ADDITIONAL SILT FENCING SHALL BE PROVIDED SUCH THAT BARRICADE FENCING (SILT FENCE) IS PROVIDED TO IMPEDE DIRECTION OF STORMWATER FLOW. SEE DETAIL 6, SHEET C1.2 FOR EXAMPLES.
13. CONTRACTOR WILL WORK TO KEEP SEDIMENT OUT OF STREETS. SEDIMENT IN STREET SHALL BE SWEEPED AND REMOVED. STREETS SHALL NOT BE WASHED DOWN UNTIL THEY ARE FIRST SWEEPED AND SEDIMENT HAS BEEN REMOVED.

SEQUENCE OF CONSTRUCTION:

1. OBTAIN GRADING/EROSION CONTROL PLAN APPROVAL FROM CITY OF CHARLOTTE ENGINEERING DEPARTMENT.
2. SET UP AN ON-SITE PRECONSTRUCTION CONFERENCE WITH EROSION CONTROL INSPECTOR TO DISCUSS EROSION CONTROL MEASURES. FAILURE TO SCHEDULE SUCH CONFERENCE 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY IS A VIOLATION OF CHAPTER 17 OF THE CITY CODE AND IS SUBJECT TO A FINE. AT PRECONSTRUCTION CONFERENCE.
3. INSTALL PERIMETER CONTROLS: CONSTRUCTION ENTRANCE, SILT FENCE/TREE PROTECTION, AS SHOWN ON THESE PLANS CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
4. CALL FOR ON-SITE INSPECTION BY INSPECTOR. WHEN APPROVED, INSPECTOR ISSUES THE GRADING PERMIT AND CLEARING AND GRUBBING MAY BEGIN.
5. PROCEED WITH WORK. CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
6. STABILIZE SITE AS AREAS ARE BROUGHT TO FINISHED GRADE.
7. COORDINATE WITH EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURES.
8. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N.C. EROSION AND SEDIMENT CONTROL PLANNING AD DESIGN MANUAL, U.S. DEPT. OF AGRICULTURE, AND CHARLOTTE-MECKLENBURG DEPARTMENT STANDARD SPECIFICATIONS.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL DISPOSE OF ALL DEBRIS TO AN APPROVED (LEGAL) OFF SITE LOCATION.
2. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS WHICH ARE TO REMAIN FROM DAMAGE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND/OR PAYMENT FOR ANY DAMAGED ITEMS WHICH WERE INTENDED TO REMAIN. ALSO, ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR WHO DAMAGED THE WORK TO REPAIR OR REPLACE.
3. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK.

TREE SAVE NOTE

ALL AREAS NOTED AS APPROVED OR PROPOSED TREE SAVE SHALL HAVE EXISTING STAND OF 2" CALIPER TREES WITH MINIMAL INVASIVE GROWTH. IF APPROVED OR PROPOSED TREE SAVE AREAS DO NOT HAVE ADEQUATE EXISTING TREE COVERAGE, DEVELOPER SHALL REPLANT TREES AT RATE OF 36 TREES PER ACRE. REPLANTED TREES SHALL BE MINIMUM 2" CALIPER SHADE TREE AND PLANTED PER C.M.I.D.S DETAIL 40.01 AS SHOWN ON "TREE SAVE AND TREE PLANTING PLAN" SHEET INCLUDED IN THIS PLAN SET. DEVELOPER SHALL NOTIFY STAN ARMSTRONG (704-517-7922) PRIOR TO REPLANTING.

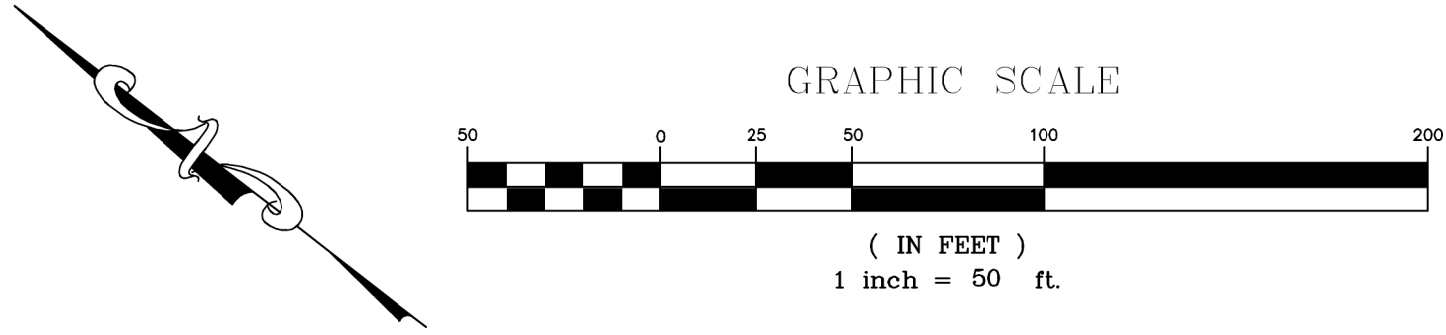
GRADING NOTES:

1. GRADING PLAN SHOWN IS PREVIOUSLY APPROVED PLAN CREATED ON JULY 13, 2004 BY LUCAS-FOREMAN INCORPORATED AND REFLECTS EXISTING CONDITIONS ON SITE. ALL WORK DONE ON SITE SHALL MATCH INTENT OF GRADING PLAN SHOWN HERE. CONTRACTOR SHALL REFER TO PREVIOUSLY APPROVED PLANS FOR ADDITIONAL INFORMATION REGARDING GRADING, UTILITIES, ROADWAY, AND STORM. THESE PLANS ARE TO BE USED FOR LOT GRADING PURPOSES ONLY.
2. ALL ELEVATIONS ARE IN REFERENCE TO THE BENCHMARK WHICH MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUND BREAKING.
3. REFER TO GEOTECHNICAL REPORT FOR INFORMATION ON FILL COMPACTION.
4. THE SITE CONTRACTOR SHALL PROTECT ALL TREES AND VEGETATION INDICATED TO REMAIN.
5. THE CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY WITH EXISTING CONTOURS.
6. THE PROPOSED CONTOURS SHOWN IN DRIVES, PARKING AND OTHER SITE WORKS ARE FINISHED ELEVATIONS INCLUDING PAVING. REFER TO PAVEMENT CROSS-SECTION DATA TO ESTABLISH CORRECT SUB-BASE OR AGGREGATE BASE COURSE ELEVATIONS TO BE COMPLETED UNDER THIS CONTRACT.
7. ALL SLOPES MUST BE SEEDED AND MULCHED WITHIN 15 WORKING DAYS OR 30 CALENDAR DAYS, WHICHEVER IS SHORTER. ALL OTHER AREAS, 15 WORKING DAYS OR 90 CALENDAR DAYS WHICHEVER IS SHORTER.
8. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE OWNER AND ENGINEER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTION PRIOR TO PROCEEDING WITH WORK.
9. GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
10. A GRADING PLAN MUST BE SUBMITTED FOR ANY LOT GRADING EXCEEDING ONE ACRE THAT WAS NOT PREVIOUSLY APPROVED.
11. DEMOLITION MATERIAL AND EXCESS SOIL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN APPROVED SOLID WASTE DISPOSAL SITE.

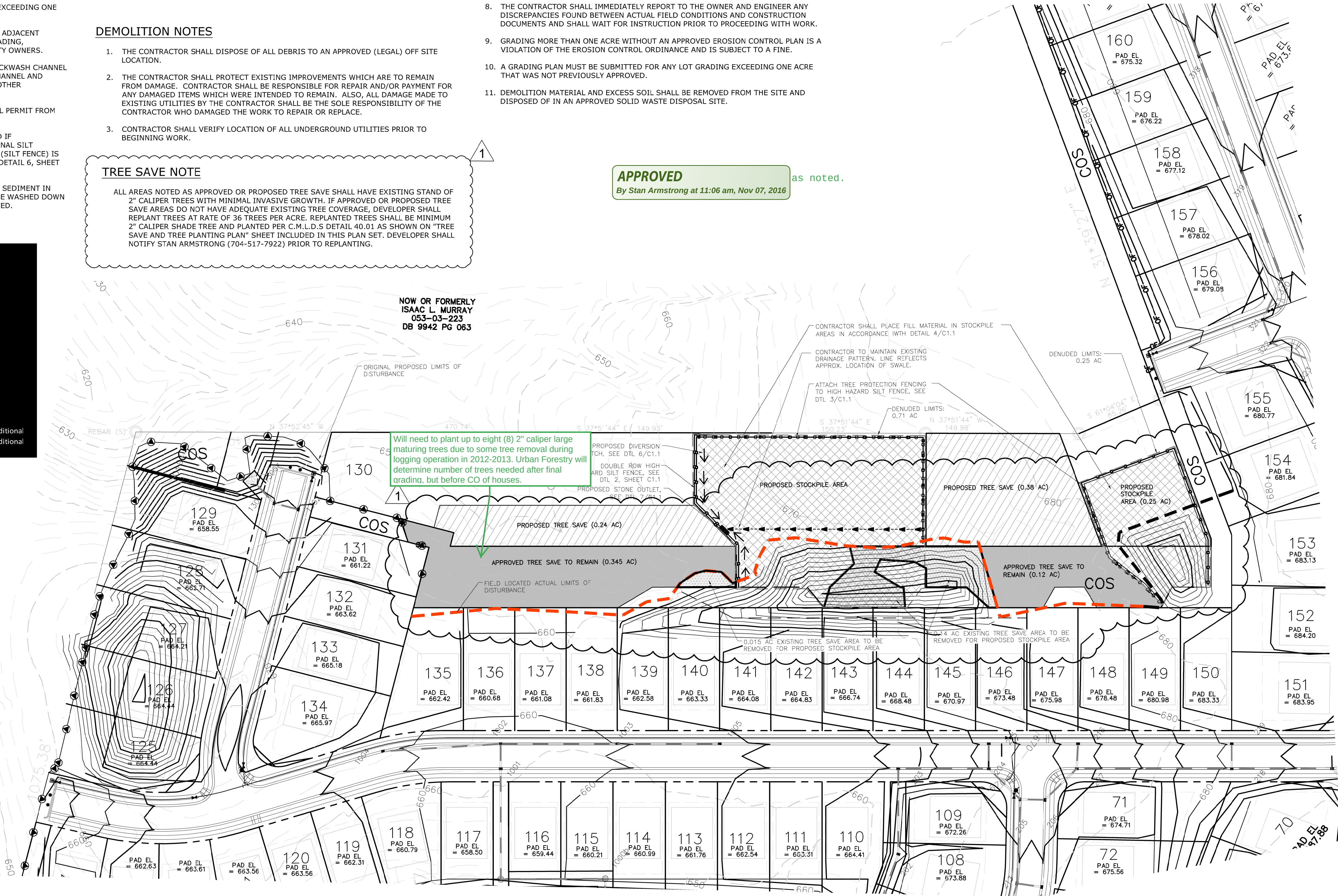
LEGEND

- HIGH HAZARD SILT FENCE, 2/C1.2
- TREE PROTECTION, 5/C1.2
- DENUDED LIMITS

TOTAL DENUDEED AREA: 0.96 AC



	Previously Approved Tree Save Area	Removed Tree Save Area	Revised Tree Save Area
	0.36	0.015	0.345
	0.26	0.14	0.12
	0.17		0.17
	0.1		0.1
	0.53		0.53
	1.99		1.99
	1.84		1.84
	5.86		5.86
	0.3		0.3
	0.97		0.97
	1.16		1.16
	3.62		3.62
	1.88		1.88
	2.87		2.87
	0.58		0.58
			0.38 Additional
			0.24 Additional
TOTAL	22.49		22.955



DocuSigned by:
Sarah Stewart
97817507055453



10/26/2016

EASTWOOD HOMES
RAPIDS AT BELMEADE GRADING
CITY OF CHARLOTTE
MECKLENBURG COUNTY, NORTH CAROLINA

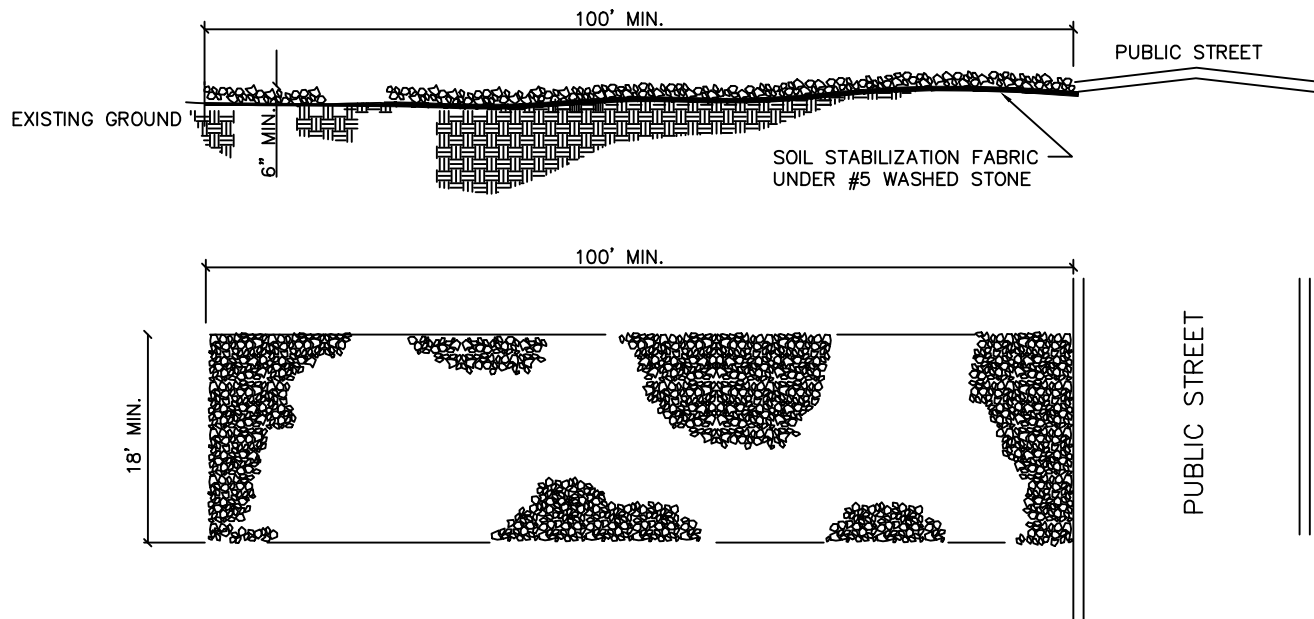
DATE: 02.25.16
SCALE: 1"=60'
DRAWN BY: SBS

REVISED
GRADING
PLAN

C1.0

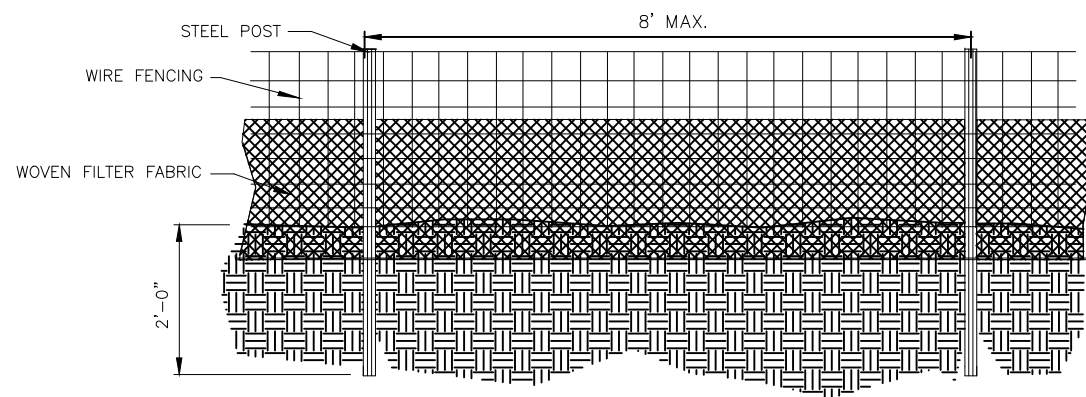
NOTES:

1. A STABILIZED ENTRANCE PAD OF #5 WASHED STONE OR RAIL ROAD BALLAST SHALL BE LOCATED WHERE TRAFFIC WILL ENTER OR LEAVE THE CONSTRUCTION SITE ONTO A PUBLIC STREET.
2. FILTER FABRIC OR COMPACTED CRUSHER RUN STONE SHALL BE USED AS A BASE FOR THE CONSTRUCTION ENTRANCE.
3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS WARRANT AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
4. ANY SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY.
5. WHEN APPROPRIATE, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN SEE STD. NO. 30.11B.
6. CDOT MAY REQUIRE A STANDARD COMMERCIAL DRIVEWAY (STD. 10.24 & 10.25) TO ACCESS THE CONSTRUCTION SITE IF THE DRIVEWAY IS ON A THOROUGHFARE.



1 CONSTRUCTION ENTRANCE
N.T.S.

CMLDS STD NO. 30.11A

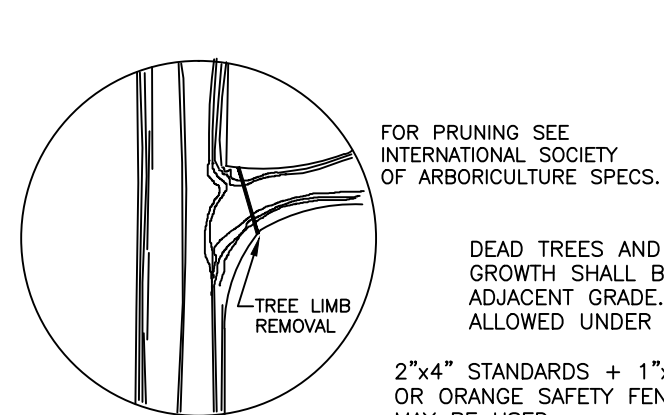
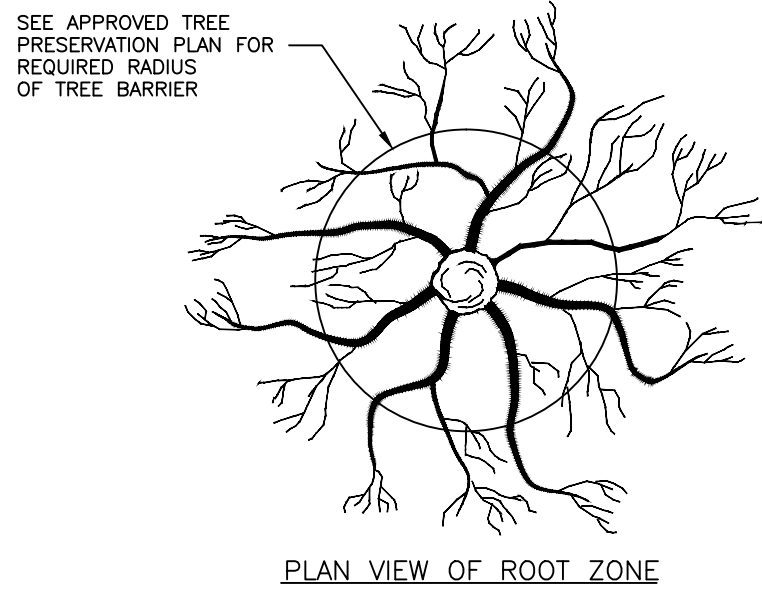


GENERAL NOTES:

1. WIRE FENCING SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
2. WOVEN FILTER FABRIC BE USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS.
3. STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
4. WIRE FENCING SHALL BE AT LEAST #10 GAGE WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
5. TURN SILT FENCE UP SLOPE AT ENDS.
6. WIRE MESH SHALL BE MIN. 13 GAGE WITH MAXIMUM 12" OPENINGS.
7. WIRE AND WASHED STONE IS REQUIRED TO BE SHOWN ON PLANS AT THE TOE OF SLOPES GREATER THAN 10 FEET VERTICAL (2:1 SLOPE).
8. ORANGE SAFETY FENCE IS REQUIRED AT BACK OF SILT FENCE WHEN GRADING IS ADJACENT TO SWIM BUFFERS, STREAMS OR WETLANDS (REFER TO SWIM BUFFER GUIDELINES). THE COLOR ORANGE IS RESERVED FOR VISUAL IDENTIFICATION OF ENVIRONMENTALLY SENSITIVE AREAS.
9. DRAINAGE AREA CAN NOT BE GREATER THAN 1/4 ACRE PER 100 FT OF FENCE.
10. SLOPE LENGTHS CAN NOT EXCEED CRITERIA SHOWN IN TABLE 6.62A NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
11. DO NOT INSTALL SEDIMENT FENCE ACROSS STREAMS, DITCHES, WATERWAYS OR OTHER AREAS OF CONCENTRATED FLOW.

2 HIGH HAZARD TEMPORARY SILT FENCE
N.T.S.

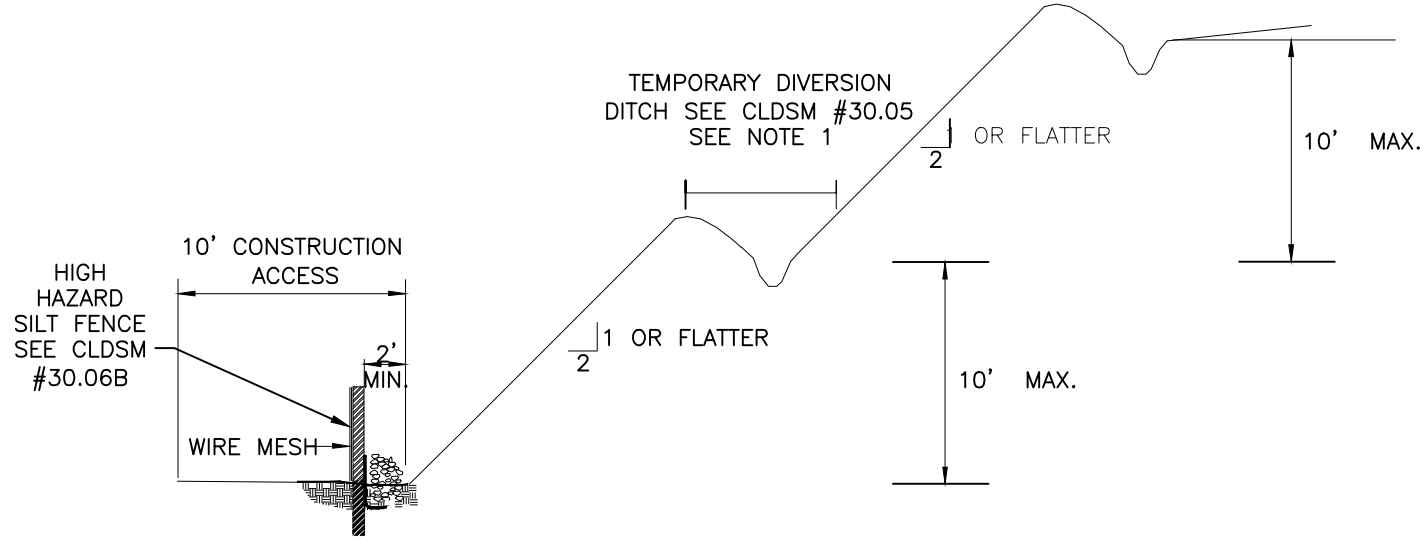
CMLDS STD NO. 30.06B



3 TREE PROTECTION DETAIL
N.T.S.

C.M.L.D.S. 40.02

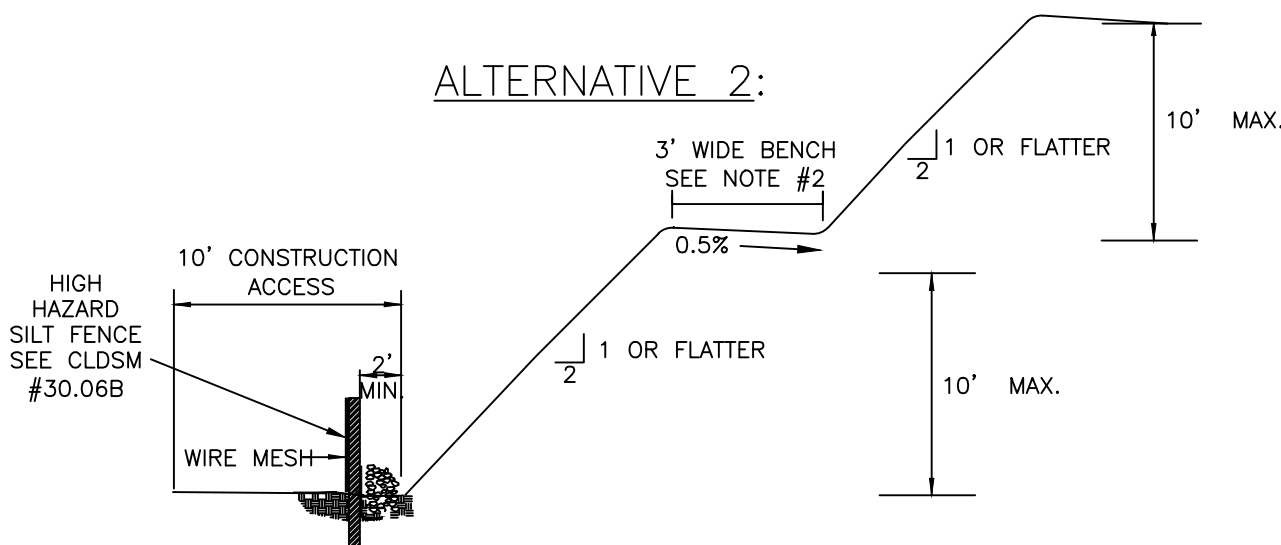
ALTERNATIVE 1:



NOTES:

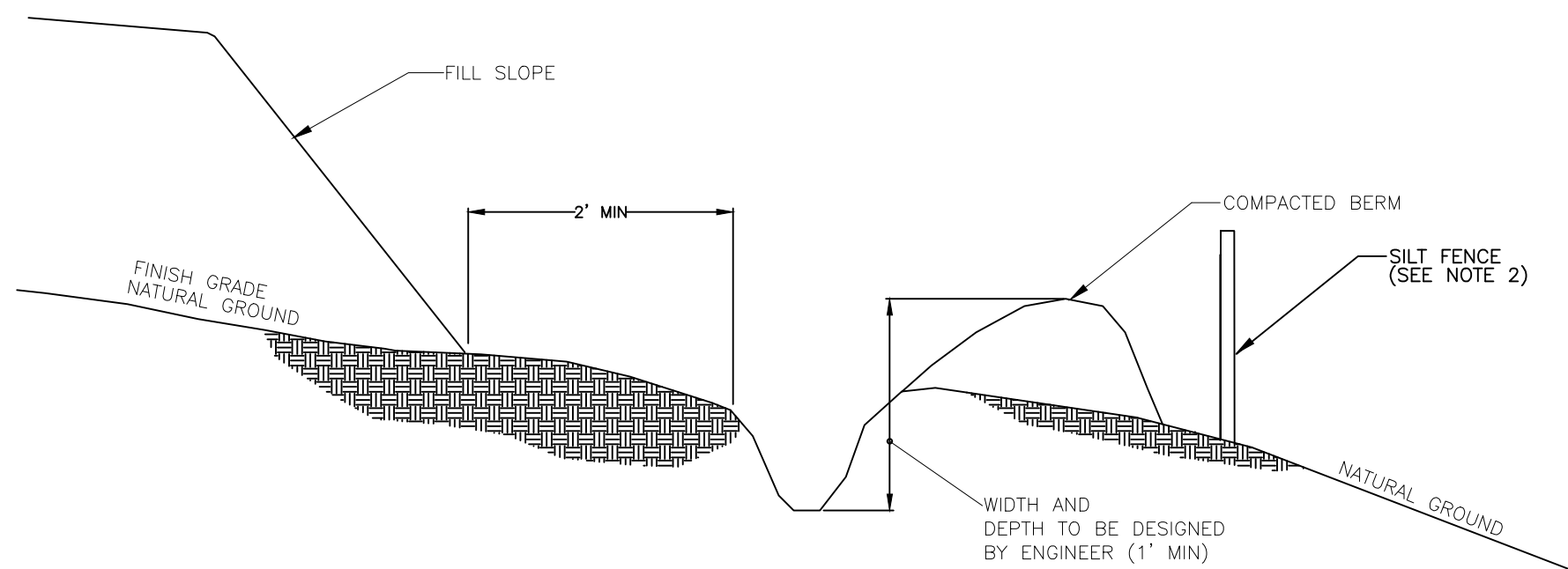
1. IF DIVERSION DITCH USED, IT SHOULD FLOW INTO SEDIMENT BASIN ROCK CHECK DAM, OR SLOPE DRAIN
2. BENCH SHOULD BE GRADED AT 0% LONGITUDINAL SLOPE (ON-CONTOUR)

ALTERNATIVE 2:



4 SLOPE STABILITY
N.T.S.

CMLDS STD NO. 30.16

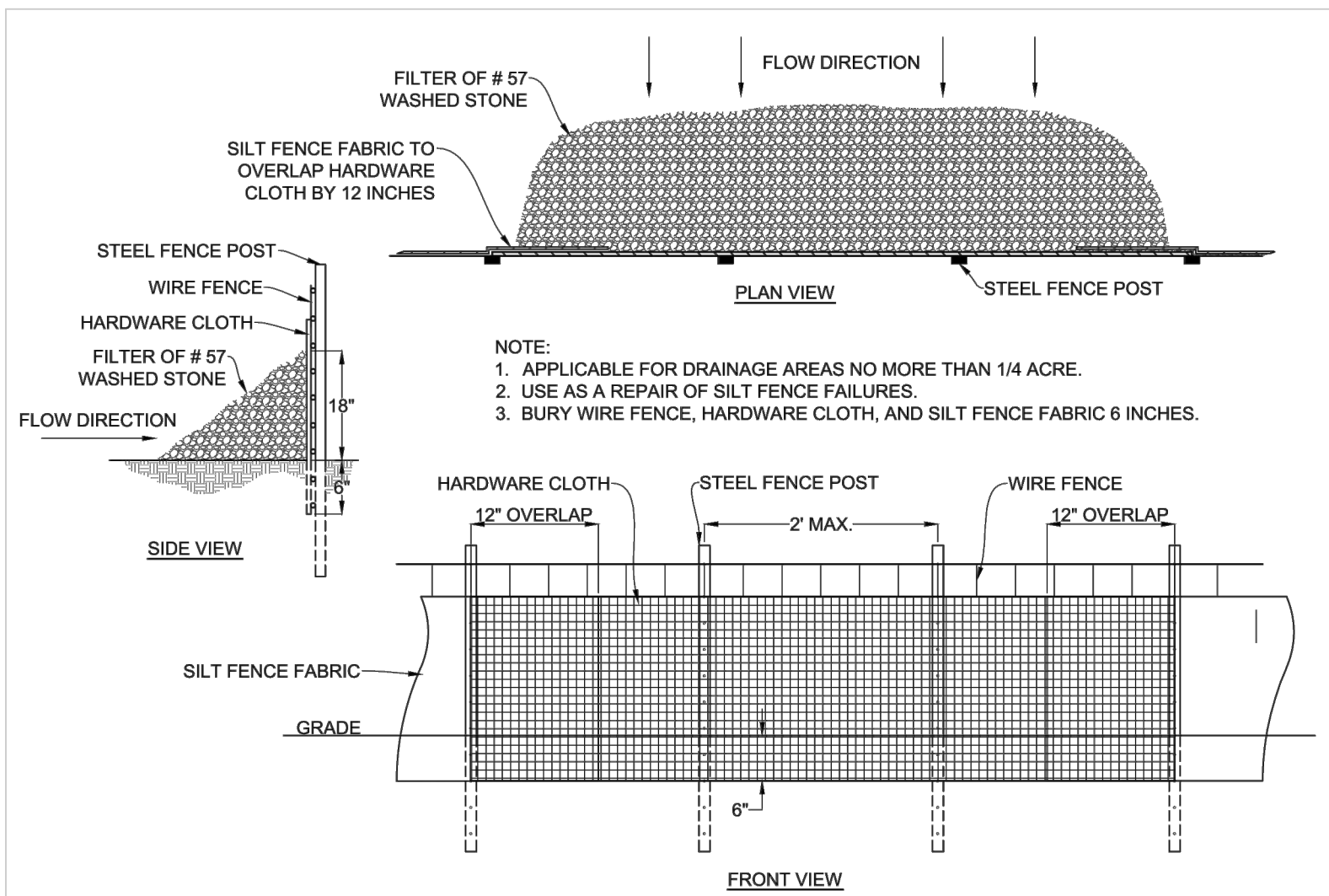


NOTE:

1. DITCH SHOULD HAVE LONGITUDINAL SLOPE OF 1%.
2. SILT FENCE MAY BE REQUIRED BEHIND BERM

6 TEMPORARY SILT DITCH
N.T.S.

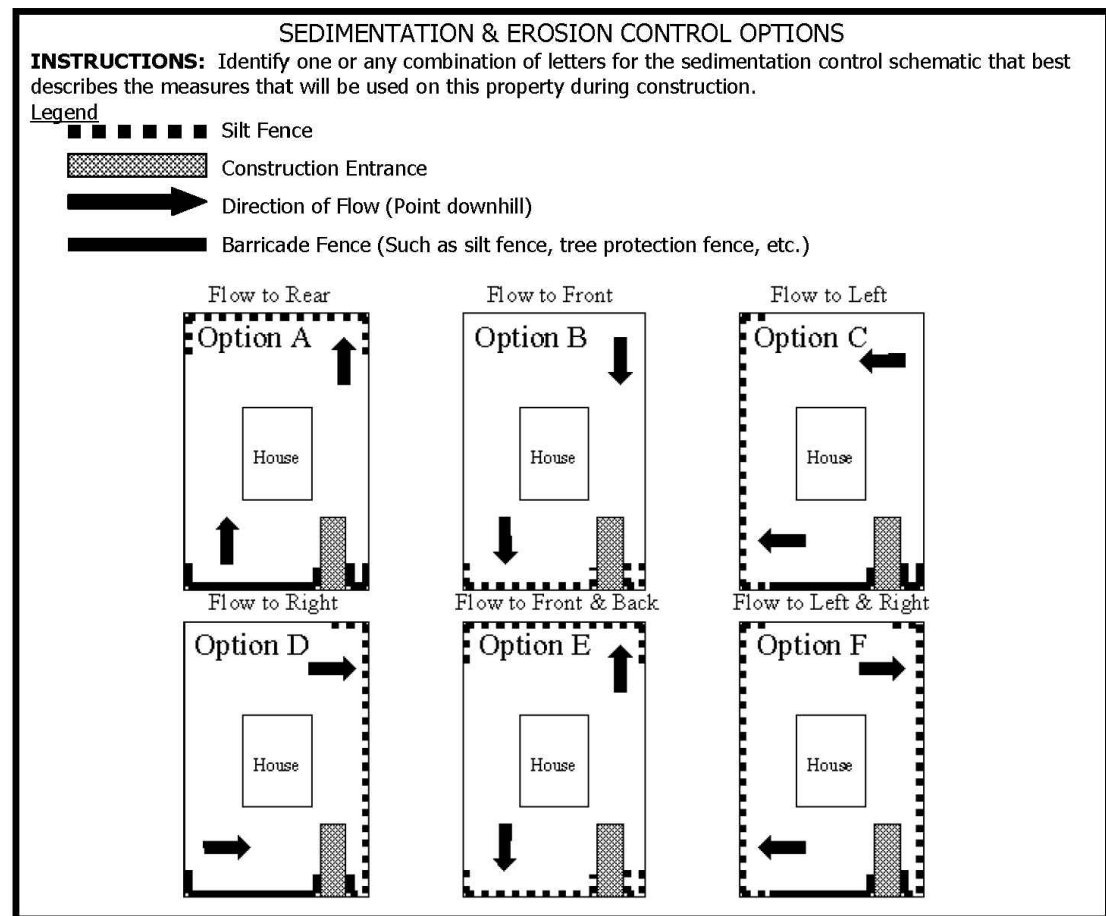
CMLDS STD NO. 30.05



7 TEMPORARY SILT FENCE OUTLET
N.T.S.

MAINTENANCE NOTES:

1. FILTER BARRIERS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH APPROX. HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.



8 SINGLE FAMILY LOT EROSION CONTROL INSTALLATION
N.T.S.

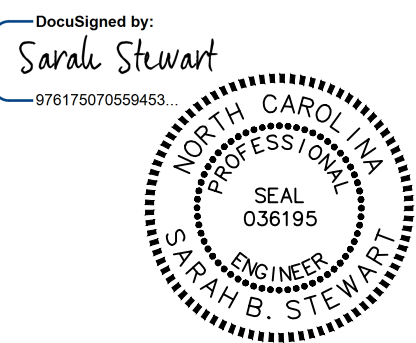
PER MECK COUNTY



DOGWOOD
ENGINEERING

Dogwood Engineering, PLLC | P-0968
3611 Mt. Holly-Huntersville Road Suite 204-326
Charlotte, NC 28216 704.574.0419
DogwoodEngineering.com

REV DATE COMMENTS



7/25/2016

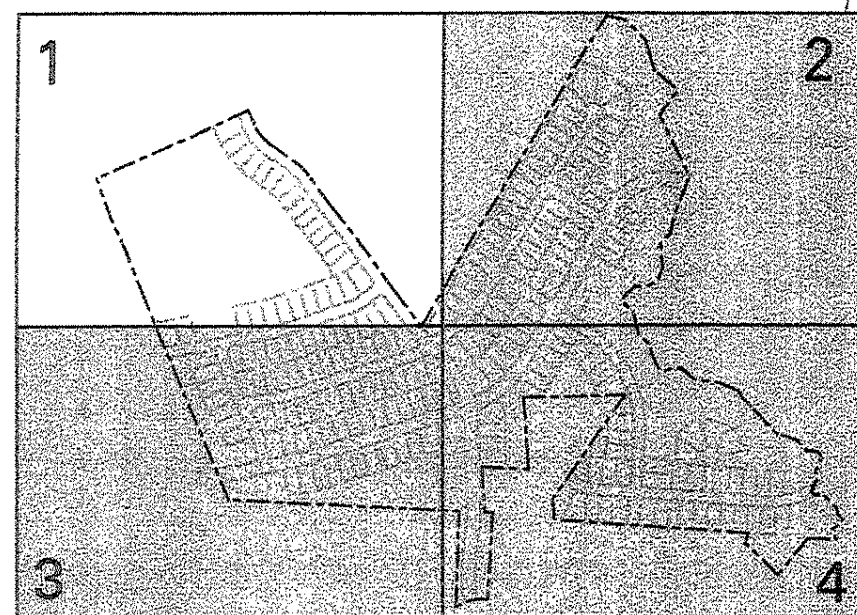
EASTWOOD HOMES
RAPIDS AT BELMEADE GRADING

CITY OF CHARLOTTE
MECKLENBURG COUNTY, NORTH CAROLINA

DATE: 07.19.2016
SCALE: N.T.S.
DRAWN BY: SBS

REVISED
DETAILS

C1.1



KEY MAP N.T.S.

CLARIAN CORP. &
ALISA BRADSHAW
053-02-217
DB 5396 PG 175

STREAM	STATION	Q (cfs)	100-YR WSEL	100+1 ELEV
A	4400	859	679.26	680.26
A	4300	859	679.19	680.19
A	4190	859	679.16	680.16
A	4129	859	679.16	680.16
A	4068	859	675.12	676.12
A	4000	859	674.56	675.56
A	3900	859	672.48	673.48
A	3800	859	670.98	671.98
A	3700	859	670.01	671.01
A	3600	859	667.98	668.98
A	3500	859	663.87	664.87
A	3400	859	660.37	661.37
A	3300	859	658.42	659.42
A	3200	859	655.98	656.98
A	3100	859	654.64	655.64
A	3000	989	652.80	653.80
A	2900	989	652.22	653.22
A	2800	989	652.13	653.13
A	2700	989	652.09	653.09
A	2600	989	652.05	653.05
A	2538	989	651.62	652.62
A	2484	Culvert		
A	2430	989	644.98	645.98
A	2400	989	644.87	645.87
A	2300	989	643.95	644.95
A	2200	1115	642.25	643.25
A	2100	1115	640.61	641.61
A	2000	1115	639.64	640.64
A	1900	1115	638.64	639.64
A	1800	1115	638.30	639.30
A	1700	1115	637.55	638.55
A	1600	1115	637.32	638.32
A	1500	1115	636.95	637.95
A	1400	1327	635.93	636.93
A	1300	1327	635.33	636.33
A	1200	1327	634.89	635.89
A	1100	1327	634.13	635.13
A	1000	1327	633.06	634.06
B	1500	141	629.71	630.71
B	1400	141	625.94	626.94
B	1300	141	621.46	622.46
B	1200	141	617.05	618.05
B	1100	179	613.73	614.73
B	1000	179	609.97	610.97
C	1800	111	654.82	655.82
C	1500	111	652.60	653.60
C	1400	111	650.22	651.22
C	1300	111	647.39	648.39
C	1200	111	647.30	648.30
C	1100	111	647.29	648.29
C	1000	Culvert		
C	900	111	638.55	639.55
C	800	111	634.07	635.07
C	700	111	631.08	632.08
D	1712	74	687.74	688.74
D	1654	74	684.25	685.25
D	1603	74	684.03	685.03
D	1550	Culvert		
D	1500	122	678.75	679.75
D	1400	122	675.53	676.53
D	1300	122	669.66	670.66
D	1200	122	664.99	665.99
D	1100	122	660.61	661.61
D	1000	122	656.08	657.08

**NOTE: The 100+1 Elevations for Stream C include an additional 3.7' for the Dam Breach Wave Height of the off-site pond

0 30 60 120
GRAPHIC SCALE
SCALE: 1" = 60'

LOT #	TYPE	LOT #	TYPE	LOT #	TYPE	LOT #	TYPE
1	B	64	S	127	B	190	A
2	B	65	B	128	B	191	A
3	B	66	B	129	B	192	A
4	B	67	B	130	0% IMP.	193	A
5	B	68	B	131	B	194	A
6	B	69	B	132	B	195	A
7	B	70	B	133	B	196	A
8	B	71	B	134	B	197	A
9	B	72	B	135	B	198	A
10	B	73	B	136	B	199	A
11	B	74	B	137	B	200	A
12	B	75	B	138	B	201	A
13	B	76	B	139	B	202	A
14	B	77	B	140	B	203	A
15	B	78	B	141	B	204	A
16	B	79	B	142	B	205	A
17	B	80	B	143	B	206	A
18	B	81	B	144	B	207	A
19	B	82	B	145	B	208	A
20	B	83	B	146	B	209	A
21	B	84	B	147	B	210	A
22	B	85	B	148	B	211	A
23	B	86	B	149	A	212	A
24	B	87	B	150	A	213	A
25	B	88	B	151	A	214	A
26	B	89	B	152	A	215	A
27	B	90	B	153	A	216	A
28	B	91	B	154	A	217	A
29	B	92	B	155	A	218	A
30	B	93	B	156	A	219	A
31	B	94	B	157	A	220	A
32	B	95	B	158	A	221	A
33	B	96	B	159	A	222	A
34	B	97	B	160	A	223	A
35	B	98	B	161	A	224	A
36	B	99	B	162	A	225	A
37	B	100	B	163	A	226	A
38	B	101	B	164	A	227	A
39	B	102	B	165	A	228	A
40	B	103	B	166	A	229	A
41	B	104	B	167	A	230	A
42	B	105	B	168	A	231	A
43	B	106	B	169	A	232	A
44	B	107	B	170	A	233	A
45	B	108	B	171	A	234	A
46	B	109	B	172	A	235	A
47	B	110	B	173	A	236	A
48	B	111	B	174	A	237	A
49	B	112	B	175	A	238	A
50	B	113	B	176	A	239	A
51	B	114	B	177	A	240	A
52	B	115	B	178	A	241	A
53	B	116	B	179	A	242	A
54	B	117	B	180	A	243	A
55	B	118	B	181	A	244	A
56	B	119	B	182	A	245	A
57	B	120	B	183	A	246	A
58	B	121	B	184	A	247	A
59	B	122	B	185	A	248	A
60	B	123	B	186	A	249	A
61	B	124	B	187	A	250	A
62	B	125	B	188	A	251	A
63	B	126	B	189	A	252	A

TYPE "A" LOTS MAX. IMPERVIOUS AREA = 5185 SF
TYPE "B" LOTS MAX. IMPERVIOUS AREA = 2885 SF
LOT 130 MUST REMAIN 0% IMPERVIOUS (NO HOME)
AMENITY AREA MAX. IMPERVIOUS AREA = 12200 SF

SEE SHEET 4 FOR IMPERVIOUS AREA CALCULATIONS

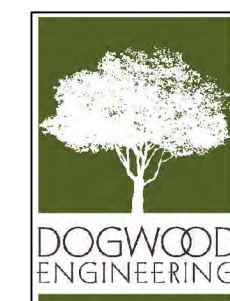
WALLACE L. LOCKAMY
AND WIFE
MARY ANN L. LOCKAMY
053-03-116
DB 5281 PG 598

WALLACE L. LOCKAMY
AND WIFE
MARY ANN L. LOCKAMY
053-03-109
DB 2852 PG 225

KEITH A. RUSSELL
AND WIFE
GERIE H. RUSSELL
053-03-111
DB 2986 PG 586

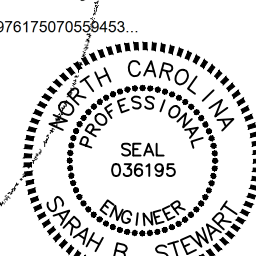
LOT #	SWPE	LOT #	SWPE
22	654.92	201	651.04
85	643.25	202	641.61
112	647.01	203	644.95
113	647.01	204	645.98
114	647.01	205	653.13
115	647.01	206	676.53
116	647.01	207	679.75
117	647.01	208	679.75
118	647.01	209	676.53
119	630.71	210	665.99
120	630.71	211	665.99
121	626.94	212	671.01
122	644.26	213	671.01
123	618.05	216	671.01
124	614.73	217	671.01
168	635.13	218	671.98
169	639.30	219	680.26
170	651.04	226	685.25
171	651.04	227	685.25
172	651.04		
173	651.04		
174	651.04		
175	651.04		

TREE SAVE AREA/ STOCKPILE SUBMITTAL



Dogwood Engineering, Inc.
3411 W. Holly-Huntington Rd., Suite 204, 205
Charlotte, NC 28217-1474
Tel: (704) 540-4706
Fax: (704) 540-4708
www.dogwoodeng.com

Submitted by:
Sandra Stewart



Add end of road treatment and signage as specified in CLDSM. Add this note to dead end streets. Add standard detail.

ISAAC L. MURRAY
053-03-223
DB 9942 PG 063

LINE	LENGTH	BEARING
L6	51.37'	S 64° 52' 34" W
L7	55.35'	S 87° 48' 34" W
L12	51.55'	S 12° 27' 06" E
L14	29.44'	S 63° 36' 19" E
L15	46.12'	N 73° 28' 26" E
L16	36.02'	S 83° 49' 36" E
L17	53.04'	S 46° 17' 53" E
L18	31.80'	S 62° 49' 36" E
L21	40.67'	S 30° 55' 35" E
L23	54.80'	S 43° 26' 22" E
L25	30.55'	S 72° 33' 13" E
L28	24.30'	N 81° 00' 43" E
L29	26.71'	S 74° 54' 53" E
L30	26.22'	S 24° 53' 34" E
L32	42.69'	S 04° 34' 55" E
L33	57.40'	S 23° 51' 56" W
L34	21.38'	S 41° 11' 41" E
L35	34.90'	N 85° 01' 27" E
L37	28.83'	S 04° 18' 52" E
L38	36.60'	S 38° 13' 35" E
L39	27.38'	S 22° 17' 15" W
L40	21.43'	S 73° 28' 15" W
L41	17.43'	S 31° 54' 36" W
L42	49.73'	S 13° 50' 05" E
L45	50.00'	N 14° 54' 02" E
L47	35.43'	N 88° 01' 11" W
L49	16.36'	N 89° 29' 12" W
L50	26.16'	S 87° 04' 57" W
L51	25.27'	S 81° 51' 51" W
L52	26.32'	S 74° 28' 14" W
L53	28.88'	S 88° 27' 51" W
L54	23.63'	S 63° 16' 15" W
L55	39.38'	N 01° 42' 26" W
L56	30.56'	N58° 12' 10" E
L57	51.83'	N53° 48' 24" E
L58	21.72'	N52° 55' 43" E

100-YEAR FLOOD STUDY NOTES:
NO LOTS ARE AFFECTED BY THE 100-YEAR FLOOD.
FLOOD STUDY BASED UPON NAVD 88 VERTICAL DATUM.

TREE SAVE AREA

TREE SAVE AREA REVISED. SEE SHEET C1.0 FOR MORE INFORMATION. STOCKPILE AREA HAS BEEN PROVIDED. SEE SHEET C1.0 FOR MORE INFORMATION.

MATCHLINE SHEET 4

The Rapids at Belmeade

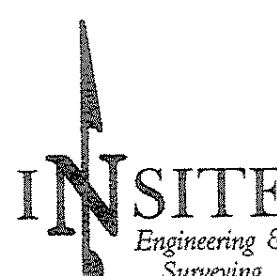
Belmeade Dr. (S.R. 1606); Charlotte, NC 28214

LandCraft Properties, Inc.

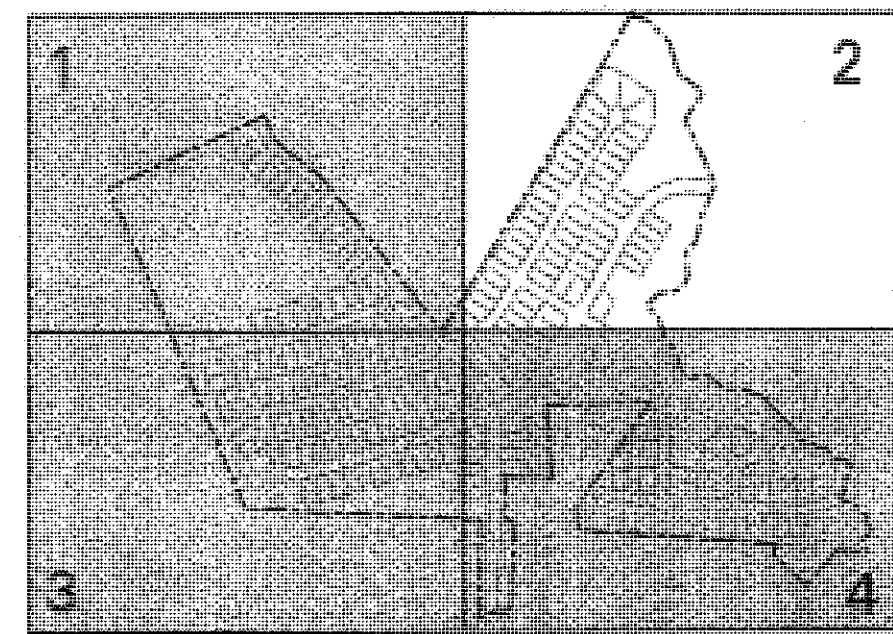
1435 West Morehead St., Suite 135; Charlotte, NC 28208

SITE PLAN 1

REVISED 07.19.2016 FOR UPDATED TREE
SAVE AND STOCKPILE AREAS



8041 Corporate Center Drive
Suite 200
Charlotte, NC 28226
Phone: (704) 540-4706
Fax: (704) 540-4708



KEY MAP N.T.S.

ISAAC L. MURRAY
053-03-223
DB 9942 PG 063

LINE	LENGTH	BEARING
L6	51.37'	S 64° 52' 34" W
L7	55.35'	S 87° 48' 34" W
L12	51.55'	S 12° 27' 06" E
L14	29.44'	S 63° 36' 19" E
L15	48.12'	N 73° 28' 26" E
L16	36.02'	S 83° 49' 36" E
L17	53.04'	S 46° 17' 53" E
L18	31.80'	S 62° 49' 36" E
L21	40.67'	S 30° 55' 35" E
L23	54.80'	S 43° 26' 22" E
L25	30.55'	S 72° 33' 13" E
L28	24.30'	N 81° 00' 43" E
L29	26.71'	S 74° 54' 53" E
L30	26.22'	S 24° 53' 34" E
L32	42.69'	S 04° 34' 55" E
L33	57.40'	S 23° 51' 56" W
L34	21.38'	S 41° 11' 41" W
L35	34.90'	N 85° 01' 27" E
L37	28.83'	S 04° 18' 52" E
L38	36.60'	S 38° 13' 35" E
L39	27.38'	S 22° 17' 15" W
L40	21.43'	S 73° 28' 15" W
L41	17.43'	S 31° 54' 36" W
L42	49.73'	S 13° 50' 05" E
L45	50.00'	N 14° 54' 02" E
L47	35.43'	N 88° 01' 11" W
L49	16.36'	N 89° 29' 12" W
L50	26.16'	S 87° 04' 57" W
L51	25.27'	S 81° 51' 51" W
L52	26.32'	S 74° 28' 14" W
L53	28.88'	S 68° 27' 51" W
L54	23.63'	S 63° 16' 15" W
L55	39.38'	N 01° 42' 26" W
L56	30.56'	N 58° 12' 10" E
L57	51.83'	N 53° 48' 24" E
L58	21.72'	N 52° 55' 43" E

SWIM BUFFER NOTES

1. THE STREAMSIDE ZONE OF THE BUFFER MUST BE LEFT COMPLETELY UNDISTURBED IN THE MANAGED USE ZONE. A LIMITED NUMBER OF TREES CAN BE REMOVED PROVIDED THAT THE TREE DENSITY REMAINING IS A MINIMUM OF 8 HEALTHY TREES OF A MINIMUM 6 INCH CALIPER PER 1000 SF. REMOVAL OF EXISTING VEGETATION MUST BE PERFORMED IN SUCH A MANNER AS TO PREVENT DAMAGE TO THE ROOTS OF REMAINING TREES.

2. ALL ENGINEERED CHANNELS AND PIPED OUTFALLS END OUTSIDE OF THE BUFFER.

3. NO FILL MATERIAL IS TO BE BROUGHT INTO THE BUFFER AND NO STRUCTURES ARE ALLOWED WITHIN ANY OF THE BUFFER AREAS (EXCEPT NON-COMMERCIAL OUT BUILDINGS NOT EXCEEDING 150 SF).

4. GRADING AND OTHER LAND DISTURBING ACTIVITIES ARE ALLOWED ONLY IN THE UPLAND ZONE. HOWEVER, THESE ACTIVITIES MUST BE PERFORMED IN SUCH A MANNER AS TO PREVENT DAMAGE TO THE ROOTS OF REMAINING TREES. GRASS OR OTHER SUITABLE GROUND COVER CAN BE APPLIED TO THE UPLAND ZONE.

5. THE OUTSIDE BUFFER BOUNDARY MUST BE CLEARLY MARKED BY ORANGE FABRIC FENCING PRIOR TO ANY LAND DISTURBING ACTIVITIES (GRADING, TREE CUTTING OR STUMPING, ETC.) AT THE SITE AND THIS FENCING MUST BE CALLED OUT ON THE PLANS.

6. THE OUTSIDE BOUNDARY OF THE STREAM BUFFER MUST BE PERMANENTLY MARKED WITH AN IRON PIN OR OTHER ACCEPTABLE PROPERTY CORNER MARKER AT STREET CROSSINGS AND THIS IRON MUST BE CALLED OUT ON PLANS.

100-YEAR FLOOD STUDY NOTES:
NO LOTS ARE AFFECTED BY THE 100-YEAR FLOOD.
FLOOD STUDY BASED UPON NAVD 88 VERTICAL DATUM.

LEGEND

TOB TOP OF STREAM BANK
TREESAVE AREA

AREA 1 - IMPERVIOUS CALCULATIONS	
#	BUILT-UPON AREA (SF)
60' LOT HOUSES (60'x50')	48.5
50' LOT HOUSES (40'x50')	0
DRIVEWAYS (17'x30')	2500
PATIOS (10'x10')	48
LEAD WALK (3'x25')	75
LOT TOTAL	16780
ASPHALT AREA	NA
CURB & GUTTER	NA
SIDEWALK	NA
ROAD TOTAL	12118
TOTAL BUILT-UPON AREA (ON-SITE)	27898 SF
TOTAL ON-SITE AREA	632468 SF = 14.98 AC
% BUILT-UPON (ON-SITE)	43%
TOTAL OFF-SITE AREA	18528 SF = 0.43 AC
% BUILT-UPON (OFF-SITE)	24% (ASSUMED)
TOTAL BUILT-UPON AREA (OFF-SITE)	4447 SF
TOTAL BUILT-UPON AREA	28345 SF
TOTAL AREA	670997 SF = 15.40 AC
% BUILT-UPON TOTAL	42%
IMPERVIOUS % > 24%, THEREFORE BMP IS REQUIRED	

AREA 2 - IMPERVIOUS CALCULATIONS	
#	BUILT-UPON AREA (SF)
60' LOT HOUSES (60'x50')	0
50' LOT HOUSES (40'x50')	0
DRIVEWAYS (17'x30')	5570
PATIOS (10'x10')	975
LEAD WALK (3'x25')	875
LOT TOTAL	29215
ASPHALT AREA	NA
CURB & GUTTER	NA
SIDEWALK	NA
ROAD TOTAL	16998
TOTAL BUILT-UPON AREA (ON-SITE)	458193 SF
TOTAL ON-SITE AREA	1012358 SF = 23.24 AC
% BUILT-UPON (ON-SITE)	45%
TOTAL OFF-SITE AREA	0 SF = 0.00 AC
% BUILT-UPON (OFF-SITE)	24% (ASSUMED)
TOTAL BUILT-UPON AREA (OFF-SITE)	0 SF
TOTAL BUILT-UPON AREA	458193 SF
TOTAL AREA	1012358 SF = 23.24 AC
% BUILT-UPON TOTAL	45%
IMPERVIOUS % > 24%, THEREFORE BMP IS REQUIRED	

AREA 3 - IMPERVIOUS CALCULATIONS	
#	BUILT-UPON AREA (SF)
60' LOT HOUSES (60'x50')	47.5
50' LOT HOUSES (40'x50')	0
DRIVEWAYS (17'x30')	2340
PATIOS (10'x10')	48
LEAD WALK (3'x25')	3450
LOT TOTAL	15060
ASPHALT AREA	NA
CURB & GUTTER	NA
SIDEWALK	NA
ROAD TOTAL	9884
TOTAL BUILT-UPON AREA (ON-SITE)	249374 SF
TOTAL ON-SITE AREA	1180847 SF = 27.11 AC
% BUILT-UPON (ON-SITE)	21%
TOTAL OFF-SITE AREA	642343 SF = 14.75 AC
% BUILT-UPON (OFF-SITE)	24% (ASSUMED)
TOTAL BUILT-UPON AREA (OFF-SITE)	154162 SF
TOTAL BUILT-UPON AREA	403536 SF
TOTAL AREA	1623190 SF = 41.85 AC
% BUILT-UPON TOTAL	25%
IMPERVIOUS % < 24%, THEREFORE NO BMP REQUIRED	

SEE SHEET 1 OR 28 FOR DRAINAGE AREA MAP

JOHN K. SPRINGSTEED
053-25-115
DB 5106 PG 439

0 30 60 120
GRAPHIC SCALE
SCALE: 1" = 60'

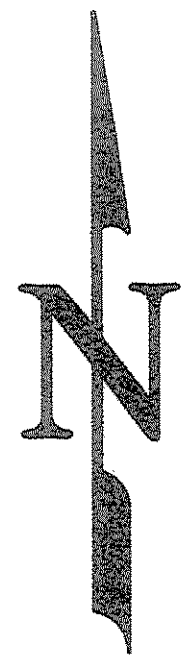
MATCHLINE SHEET 6 A-2900

The Rapids at Belmeade
Belmeade Dr. (S.R. 1000), Charlotte, NC 28214

LandCraft Properties, Inc.
1435 West Morehead St., Suite 135, Charlotte, NC 28208

SITE PLAN 2

INSITE
Engineering & Surveying
8041 Corporate Center Drive
Suite 200
Charlotte, NC 28226
Phone: (704) 540-4706
Fax: (704) 540-4708



WALLACE L. LOCKAMY
AND WIFE
MARY ANN L. LOCKAMY
053-03-109
DB 2852 PG 225

KEITH A. RUSSELL
AND WIFE
GERRIE H. RUSSELL
053-03-111
DB 2986 PG 586

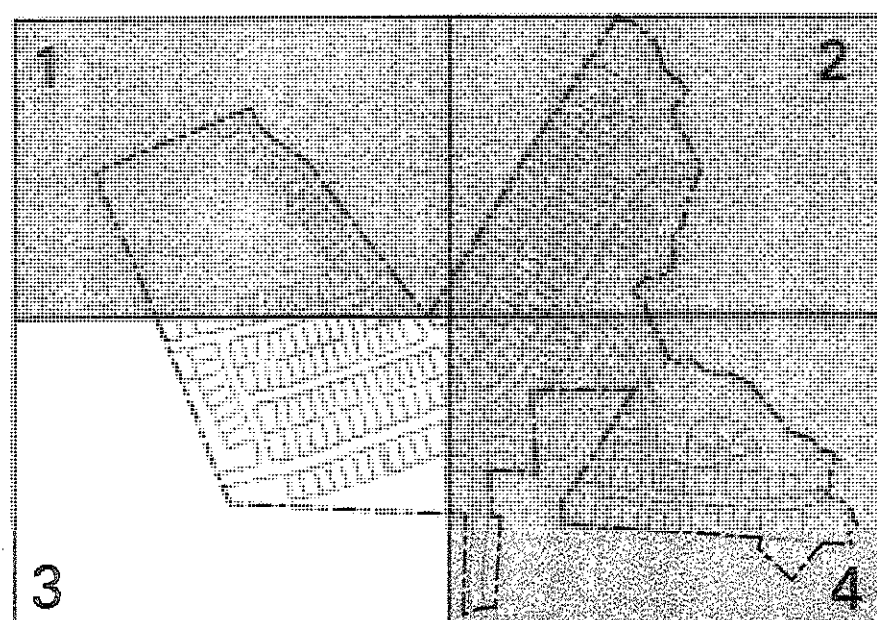
Add end of road treatment
and signage as specified in
CLDSM. Add this note to
dead end streets. Add
standard detail.

LINE	LENGTH	BEARING
L6	51.37'	S 64° 52' 34" W
L7	55.35'	S 87° 48' 34" W
L12	51.55'	S 12° 27' 06" E
L14	29.44'	S 63° 36' 19" E
L15	46.12'	N 73° 28' 26" E
L16	36.02'	S 83° 49' 36" E
L17	53.04'	S 46° 17' 53" E
L18	31.80'	S 62° 49' 36" E
L21	40.67'	S 30° 55' 35" E
L23	54.80'	S 43° 26' 22" E
L25	30.55'	S 72° 33' 13" E
L28	24.30'	N 81° 00' 43" E
L29	26.71'	S 74° 54' 53" E
L30	26.22'	S 24° 53' 34" E
L32	42.69'	S 04° 34' 55" E
L33	57.40'	S 23° 51' 56" W
L34	21.38'	S 41° 11' 41" E
L35	34.90'	N 85° 01' 27" E
L37	28.83'	S 04° 18' 52" E
L38	36.60'	S 38° 13' 35" E
L39	27.38'	S 22° 17' 15" W
L40	21.43'	S 73° 28' 15" W
L41	17.43'	S 31° 54' 36" W
L42	49.73'	S 13° 50' 05" E
L45	50.00'	N 14° 54' 02" E
L47	35.43'	N 88° 01' 11" W
L49	16.36'	N 89° 29' 12" W
L50	26.16'	S 87° 04' 57" W
L51	25.27'	S 81° 51' 51" W
L52	26.32'	S 74° 28' 14" W
L53	28.88'	S 68° 27' 51" W
L54	23.63'	S 63° 16' 15" W
L55	39.38'	N 01° 42' 26" W
L56	30.56'	N58° 12' 10" E
L57	51.83'	N53° 48' 24" E
L58	21.72'	N52° 55' 43" E

LEGEND

TREESAVE AREA

100-YEAR FLOOD STUDY NOTES:
NO LOTS ARE AFFECTED BY THE 100-YEAR FLOOD.
FLOOD STUDY BASED UPON NAVD 88 VERTICAL DATUM.



KEY MAP N.T.S.

MATCHLINE SHEET 3

SAN SABA STREET 60'-R/W

GUADALUPE LANE 60'-R/W

BERRY CREEK ROAD 60'-R/W

VERDE CREEK ROAD 60'-R/W

TEMPORARY CONSTRUCTION EASEMENTS
FOR FUTURE ROAD & UTILITY CONSTRUCTION

VERA ELAINE DUNLAP
053-03-114
DB 2793 PG 167

ANN B. DUNLAP
053-03-221
DB 5744 PG 302

VERA ELAINE MOSS
053-03-201
DB 3985 PG 296

ROBERT L. BARNES, JR.
AND WIFE
053-03-215
DB 9409 PG 955

JOHN PATRICK BARNES
053-03-215
DB 6839 PG 461

ROBERT L. COLE
AND WIFE
RILDA JUANITA COLE
053-03-217
DB 4216 PG 079

BILLY GENE FREE
AND WIFE
SHIRLEY ANN FREE
053-03-203
DB 4249 PG 191

MATCHLINE SHEET 6

The Rapids at Belmeade
Belmeade Dr. (S.R. 1606); Charlotte, NC 28214
CLIENT
LandCraft Properties, Inc.
1435 West Morehead St., Suite 136; Charlotte, NC 28208

SITE PLAN 3

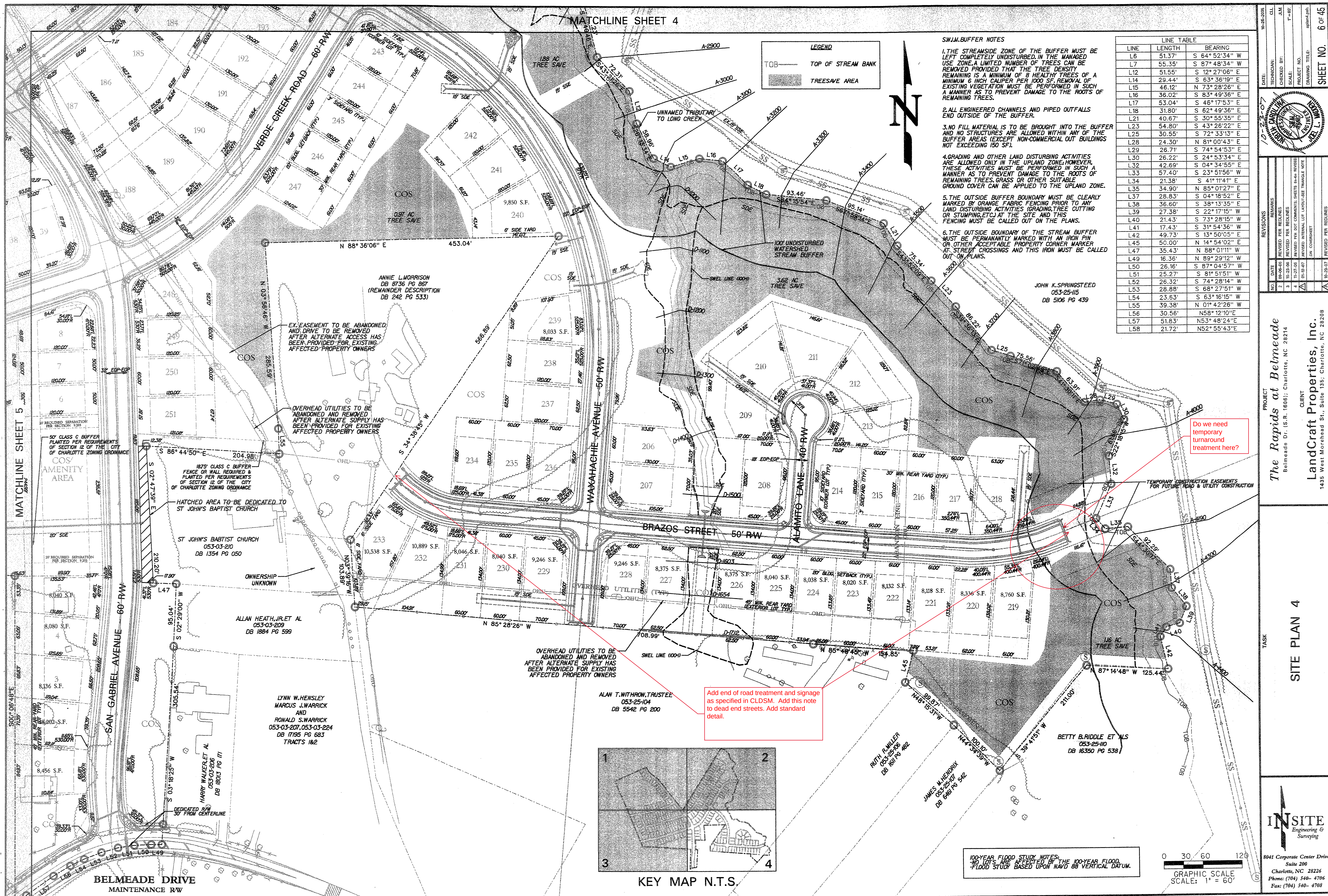


8041 Corporate Center Drive
Suite 200
Charlotte, NC 28226
Phone: (704) 540-4706
Fax: (704) 540-4708

GRAPHIC SCALE
SCALE: 1" = 40'

NO.	DATE	REVISIONS
1	10-25-2008	DATE: 10-25-2008
2	08-06-09	REVISIONS: 10-25-2008
3	10-25-09	REVISIONS: 10-25-2008
4	11-27-09	REVISIONS: 10-25-2008
5	01-14-07	REVISIONS: 10-25-2008
6	08-03-07	REVISIONS: 10-25-2008
7	10-24-07	REVISIONS: 10-25-2008

SHEET NO. 5 OF 45



MATCHLINE SHEET 4

LEGEND

- TOP OF STREAM BANK
- TREESAVE AREA

SWIM BUFFER NOTES

1. THE STREAMSIDE ZONE OF THE BUFFER MUST BE LEFT COMPLETELY UNDISTURBED. IN THE MANAGED USE ZONE, A LIMITED NUMBER OF TREES CAN BE REMOVED PROVIDED THAT THE TREE DENSITY REMAINING IS A MINIMUM OF 8 HEALTHY TREES OF A MINIMUM 6 INCH CALIPER PER 1000 SF. REMOVAL OF EXISTING VEGETATION MUST BE PERFORMED IN SUCH A MANNER AS TO PREVENT DAMAGE TO THE ROOTS OF REMAINING TREES.
2. ALL ENGINEERED CHANNELS AND PIPED OUTFALLS END OUTSIDE OF THE BUFFER.
3. NO FILL MATERIAL IS TO BE BROUGHT INTO THE BUFFER AND NO STRUCTURES ARE ALLOWED WITHIN ANY OF THE BUFFER AREAS (EXCEPT NON-COMMERCIAL OUT BUILDINGS NOT EXCEEDING 150 SF).
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5. THE OUTSIDE BUFFER BOUNDARY MUST BE CLEARLY MARKED BY ORANGE FABRIC FENCING PRIOR TO ANY LAND DISTURBING ACTIVITIES (GRADING, TREE CUTTING OR STUMPING, ETC.) AT THE SITE AND THIS FENCING MUST BE CALLED OUT ON THE PLANS.
6. THE OUTSIDE BOUNDARY OF THE STREAM BUFFER MUST BE PERMANENTLY MARKED WITH AN IRON PIN OR OTHER ACCEPTABLE PROPERTY CORNER MARKER AT STREET CROSSINGS AND THIS IRON MUST BE CALLED OUT ON PLANS.

LINE TABLE

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L6	51.37'	S 64° 52' 34" W
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L12	51.55'	S 12° 27' 06" E
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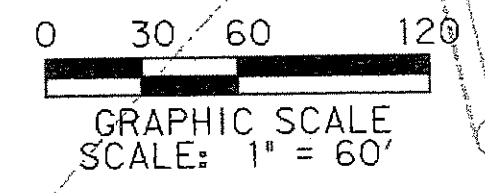
Do we need temporary turnaround treatment here?

ALAN T. WITHROW, TRUSTEE
053-25-104
DB 5542 PG 200

Add end of road treatment and signage as specified in CLDSM. Add this note to dead end streets. Add standard detail.



100-YEAR FLOOD STUDY NOTES:
NO LOTS ARE AFFECTED BY THE 100-YEAR FLOOD.
FLOOD STUDY BASED UPON NAVD 88 VERTICAL DATUM.



DATE: 10-22-07
TECHNICAL: JLM
CHECKED BY: JLM
SCALE: 1"=60'
PROJECT NO: 053-25-104
DRAWING TITLE: SITE PLAN 4
SHEET NO: 6 OF 45

REVISIONS

NO.	DATE	REVISION
1	09-26-06	REVISED PER REVISIONS
2	10-22-07	REVISED PER DOT COMMENTS SHEET 8-6-6 REVISION
3	11-27-07	REVISED PER DOT COMMENTS SHEET 8-6-6 REVISION
4	12-14-07	REVISED PER DOT COMMENTS SHEET 8-6-6 REVISION

PROJECT: The Rapids at Belmeade
Belmeade Dr. (S.R. 1606), Charlotte, NC 28214
CLIENT: LandCraft Properties, Inc.
1435 West Northhead St., Suite 135, Charlotte, NC 28208

TASK: SITE PLAN 4

INSITE
Engineering & Surveying

8041 Corporate Center Drive
Suite 200
Charlotte, NC 28226
Phone: (704) 540- 4706
Fax: (704) 540- 4708

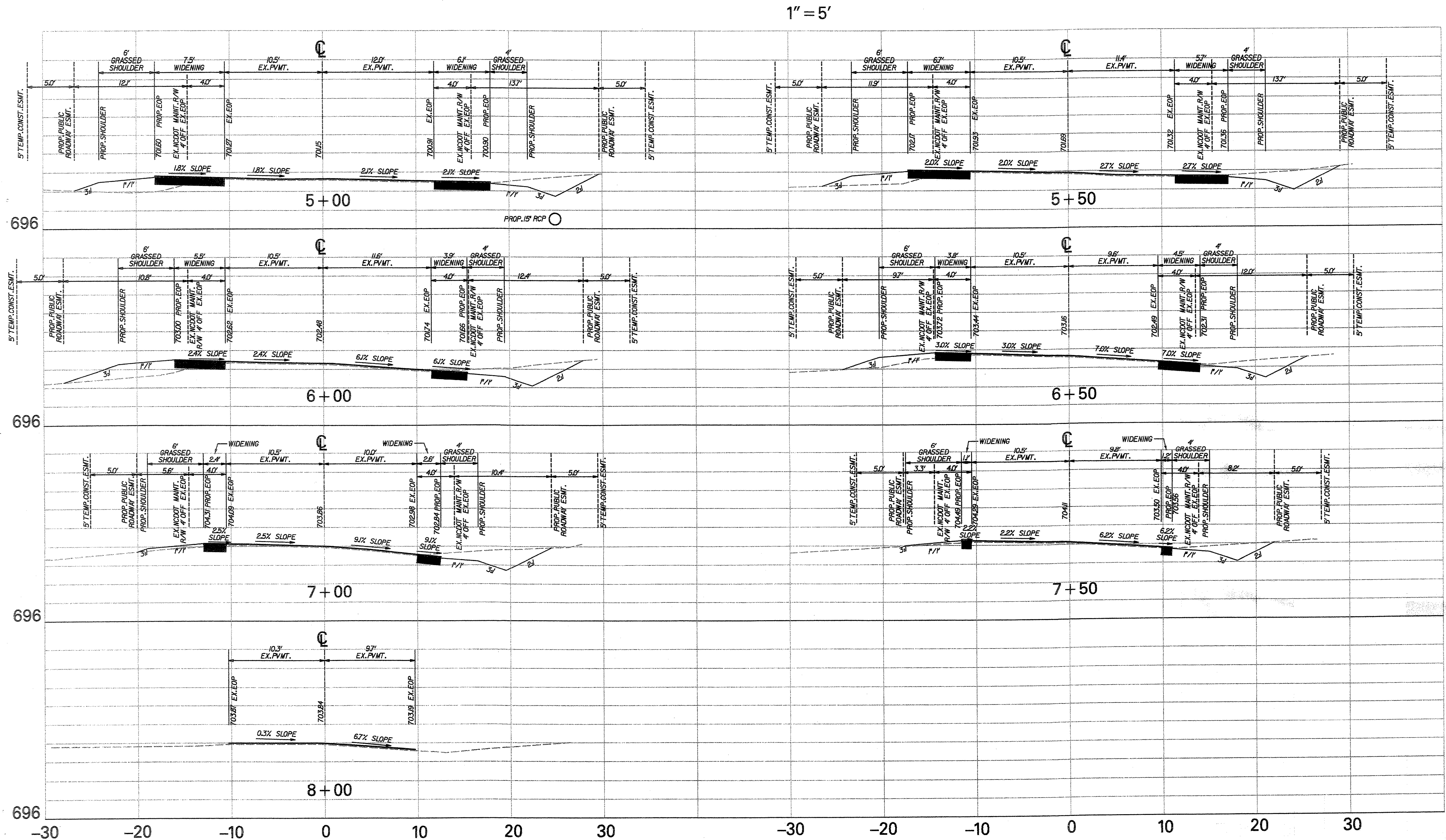
ALL WIDENING TO BE COMPLETED
BY EXTENDING THE EXISTING
CROSS-SLOPE EXCEPT AS SHOWN
BETWEEN CROSS-SECTIONS 2+00 & 3+00

WEDGE PAVEMENT BETWEEN CROSS-
SECTIONS 2+00 & 3+00 IN ORDER TO
PROVIDE A SMOOTH TRANSITION &
ELIMINATE THE EXISTING DIP IN THIS
AREA. CL ELEVATION UNCHANGED
EXCEPT FOR THE STANDARD OVERLAP
THICKNESS.

WEDGE PAVEMENT
TO MODIFY CROSS
SLOPE AS SHOWN
(THIS CROSS-
SECTION ONLY)



INSITE
Engineering & Surveying



ALL WIDENING TO BE COMPLETED
BY EXTENDING THE EXISTING
CROSS-SLOPE EXCEPT AS SHOWN
BETWEEN CROSS-SECTIONS 2+00 & 3+00

DATE:	10-22-07
TECHNICAL:	SJD
CHECKED BY:	JLM
SCALE:	1" = 5'
PROJECT NO.	10-22-07
DRAWING TITLE:	road improv. sheet
SHEET NO.	6c of 45

NO.	DATE	REVISIONS	REMARKS
1	09-08-06	REVISED PER REQUINS	
2	10-22-06	REVISED PER REQUINS	
3	11-27-06	REVISED PER DOT COMMENTS SHEETS 5-4-6 REVISED	
4	01-10-07	REVISED INTERNAL LOT LAYOUT-SEE TRIANGLE NOTE	
5	10-23-07	JAN CORRECTION	
6	10-23-07	REVISED PER REQUINS	

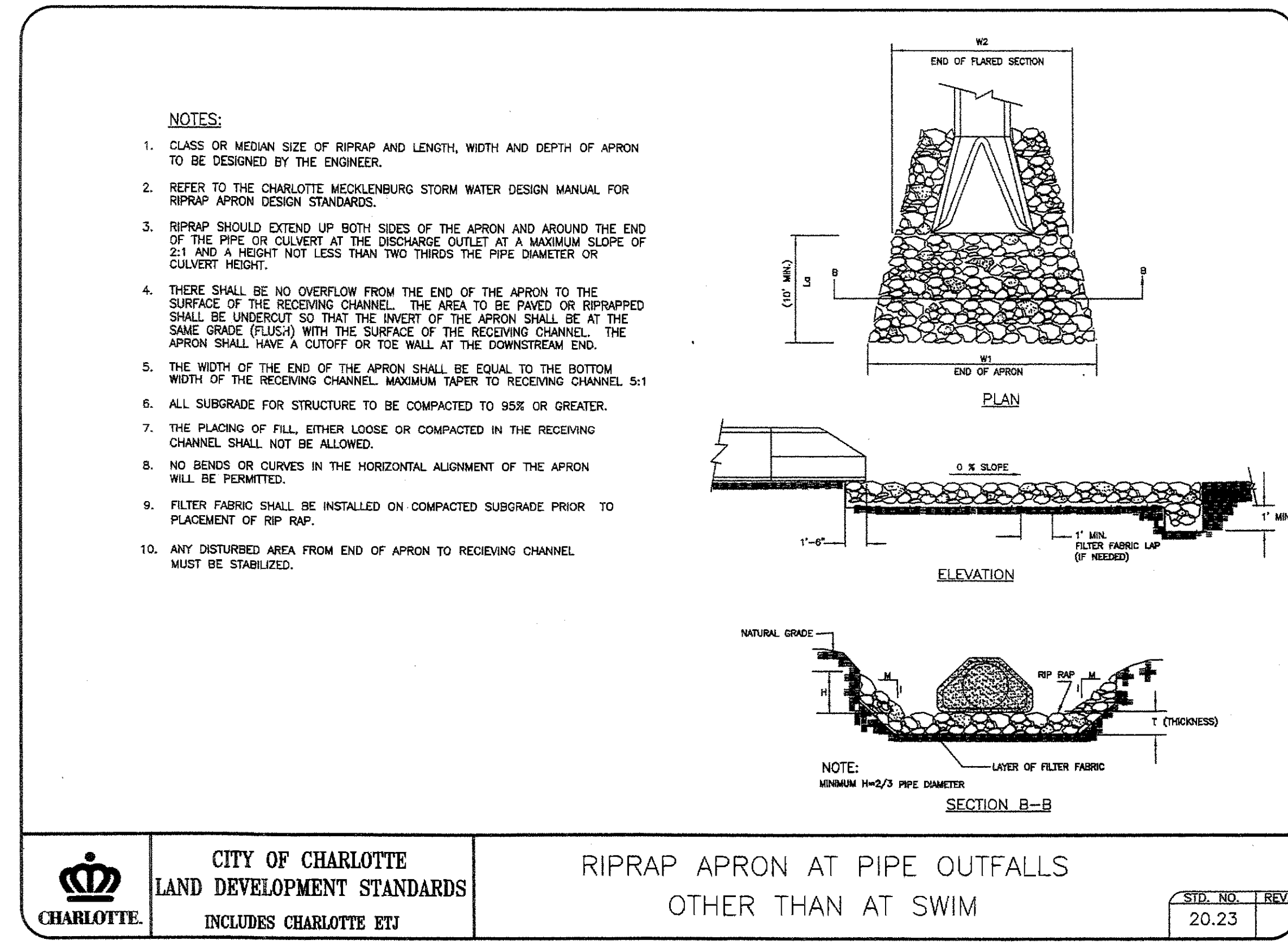
PROJECT
The Rapids at Belmeade
Belmeade Dr. (S.R. 1006), Charlotte, NC 28214

CLIENT
LandCraft Properties, Inc.
1435 West Morehead St., Suite 135, Charlotte, NC 28208

TASK
BELMEADE DRIVE
CROSS SECTIONS (2 OF 2)

INSITE
Engineering & Surveying

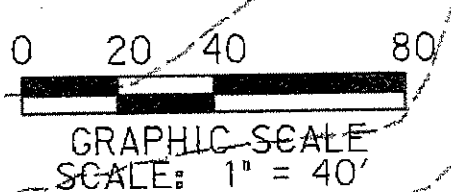
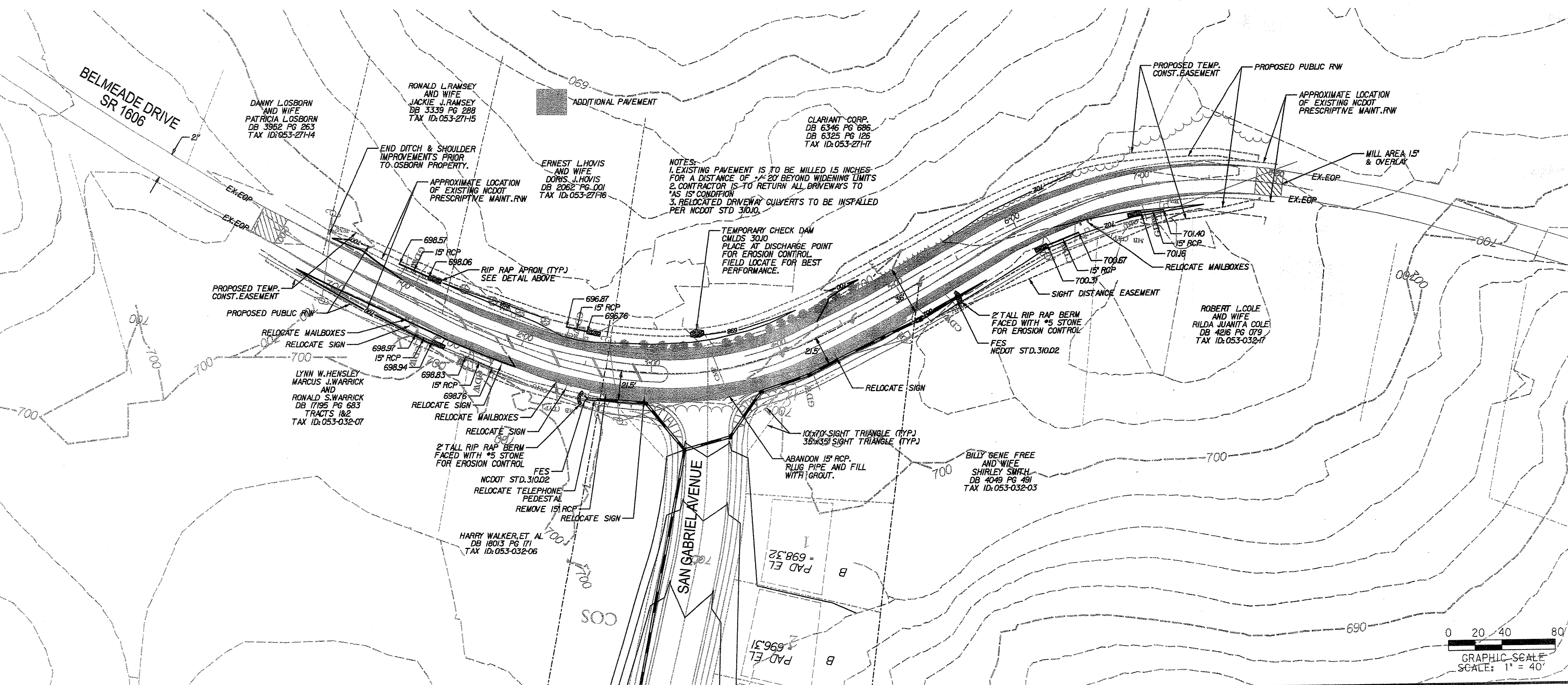
8041 Corporate Center Drive
Suite 200
Charlotte, NC 28226
Phone: (704) 540-4766
Fax: (704) 540-4768



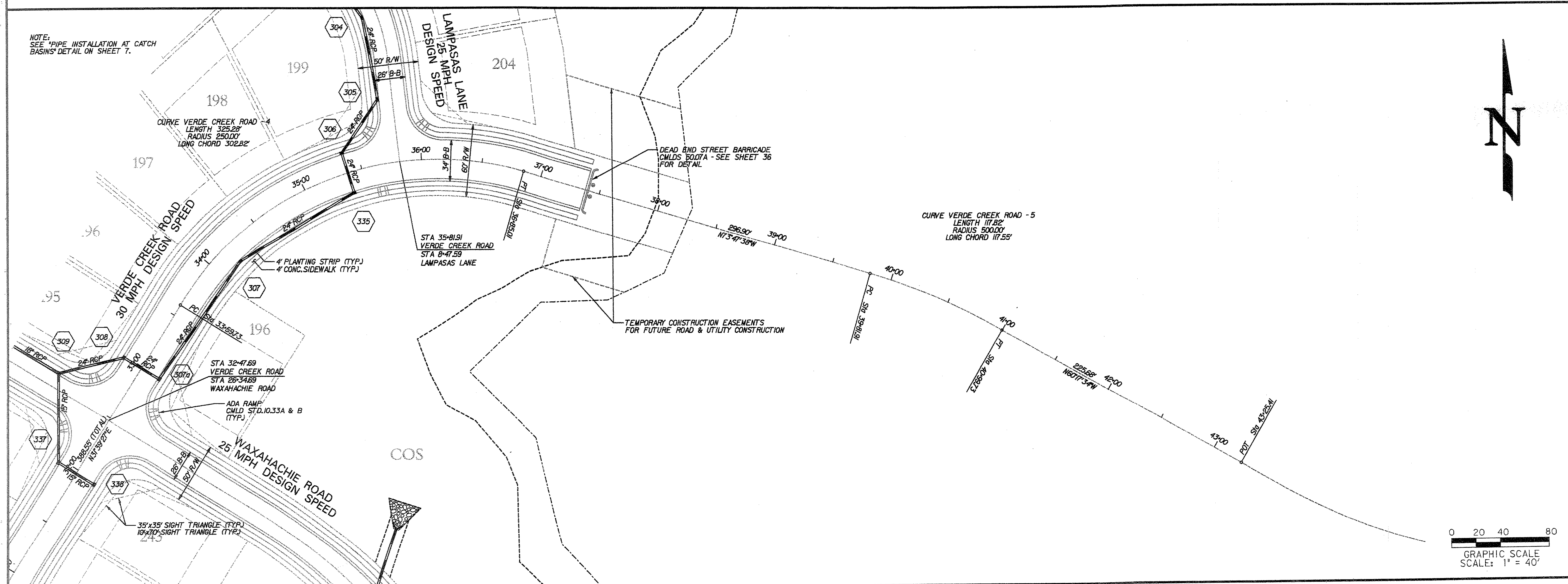
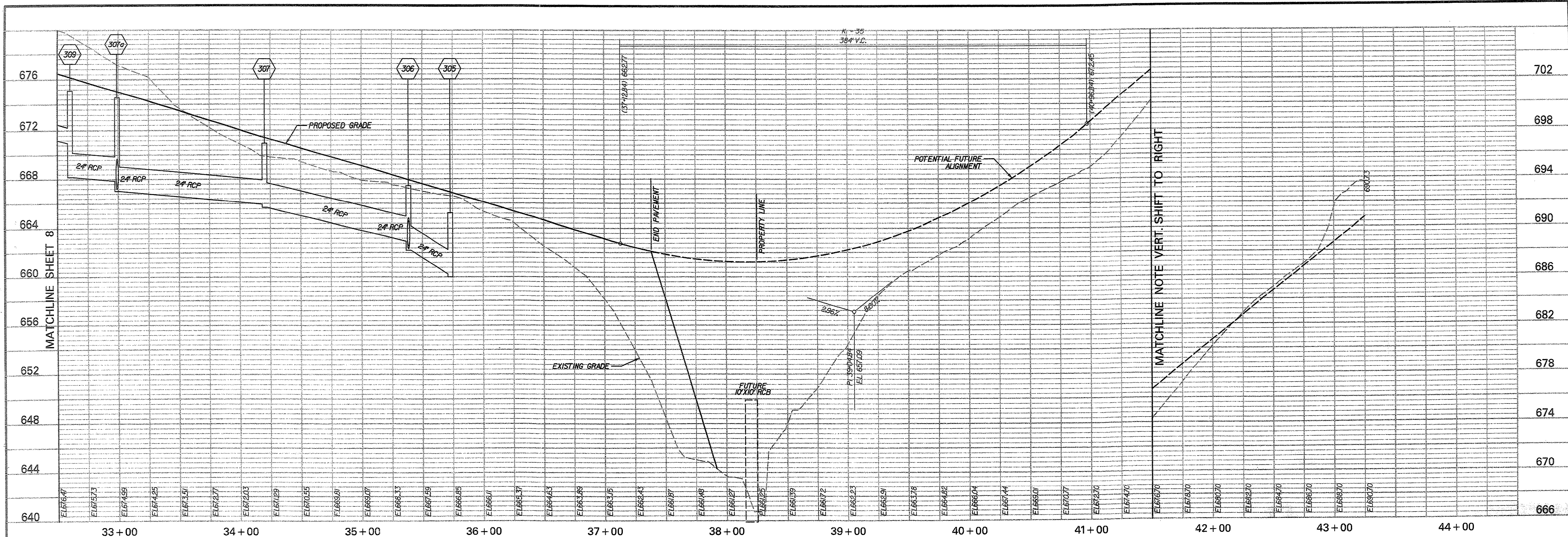
NOTES:
ALL RELOCATED DRIVEWAY CULVERTS TO HAVE RIP RAP APRON ON THE D/S END PER CMDS 20.23.
CLASS B RIP RAP
APRON LENGTH = 10'
APRON WIDTH = 2.5 X PIPE DIAMETER
(I.E. 2.5 X 15" = 38")



SEE CROSS-SECTIONS FOR ADDITIONAL INFORMATION
PERTAINING TO THE GRADING OF THE PROPOSED IMPROVEMENTS



REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>REVISIONS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>03-06-08</td> <td>REVISED PER REVISIONS</td> </tr> <tr> <td>2</td> <td>10-23-08</td> <td>REVISED PER DOT COMMENTS, SHEETS 6-6, 6-7, 6-8, 6-9, 6-10, 6-11, 6-12, 6-13, 6-14, 6-15, 6-16, 6-17, 6-18, 6-19, 6-20, 6-21, 6-22, 6-23, 6-24, 6-25, 6-26, 6-27, 6-28, 6-29, 6-30, 6-31, 6-32, 6-33, 6-34, 6-35, 6-36, 6-37, 6-38, 6-39, 6-40, 6-41, 6-42, 6-43, 6-44, 6-45, 6-46, 6-47, 6-48, 6-49, 6-50, 6-51, 6-52, 6-53, 6-54, 6-55, 6-56, 6-57, 6-58, 6-59, 6-60, 6-61, 6-62, 6-63, 6-64, 6-65, 6-66, 6-67, 6-68, 6-69, 6-70, 6-71, 6-72, 6-73, 6-74, 6-75, 6-76, 6-77, 6-78, 6-79, 6-80, 6-81, 6-82, 6-83, 6-84, 6-85, 6-86, 6-87, 6-88, 6-89, 6-90, 6-91, 6-92, 6-93, 6-94, 6-95, 6-96, 6-97, 6-98, 6-99, 6-100, 6-101, 6-102, 6-103, 6-104, 6-105, 6-106, 6-107, 6-108, 6-109, 6-110, 6-111, 6-112, 6-113, 6-114, 6-115, 6-116, 6-117, 6-118, 6-119, 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6-978, 6-979, 6-980, 6-981, 6-982, 6-983, 6-984, 6-985, 6-986, 6-987, 6-988, 6-989, 6-990, 6-991, 6-992, 6-993, 6-994, 6-995, 6-996, 6-997, 6-998, 6-999, 7-000, 7-001, 7-002, 7-003, 7-004, 7-005, 7-006, 7-007, 7-008, 7-009, 7-010, 7-011, 7-012, 7-013, 7-014, 7-015, 7-016, 7-017, 7-018, 7-019, 7-020, 7-021, 7-022, 7-023, 7-024, 7-025, 7-026, 7-027, 7-028, 7-029, 7-030, 7-031, 7-032, 7-033, 7-034, 7-035, 7-036, 7-037, 7-038, 7-039, 7-040, 7-041, 7-042, 7-043, 7-044, 7-045, 7-046, 7-047, 7-048, 7-049, 7-050, 7-051, 7-052, 7-053, 7-054, 7-055, 7-056, 7-057, 7-058, 7-059, 7-060, 7-061, 7-062, 7-063, 7-064, 7-065, 7-066, 7-067, 7-068, 7-069, 7-070, 7-071, 7-072, 7-073, 7-074, 7-075, 7-076, 7-077, 7-078, 7-079, 7-080, 7-081, 7-082, 7-083, 7-084, 7-085, 7-086, 7-087, 7-088, 7-089, 7-090, 7-091, 7-092, 7-093, 7-094, 7-095, 7-096, 7-097, 7-098, 7-099, 7-100, 7-101, 7-102, 7-103, 7-104, 7-105, 7-106, 7-107, 7-108, 7-109, 7-110, 7-111, 7-112, 7-113, 7-114, 7-115, 7-116, 7-117, 7-118, 7-119, 7-120, 7-121, 7-122, 7-123, 7-124, 7-125, 7-126, 7-127, 7-128, 7-129, 7-130, 7-131, 7-132, 7-133, 7-134, 7-135, 7-136, 7-137, 7-138, 7-139, 7-140, 7-141, 7-142, 7-143, 7-144, 7-145, 7-146, 7-147, 7-148, 7-149, 7-150, 7-151, 7-152, 7-153, 7-154, 7-155, 7-156, 7-157, 7-158, 7-159, 7-160, 7-161, 7-162, 7-163, 7-164, 7-165, 7-166, 7-167, 7-168, 7-169, 7-170, 7-171, 7-172, 7-173, 7-174, 7-175, 7-176, 7-177, 7-178, 7-179, 7-180, 7-181, 7-182, 7-183, 7-184, 7-185, 7-186, 7-187, 7-188, 7-189, 7-190, 7-191, 7-192, 7-193, 7-194, 7-195, 7-196, 7-197, 7-198, 7-199, 7-200, 7-201, 7-202, 7-203, 7-204, 7-205, 7-206, 7-207, 7-208, 7-209, 7-210, 7-211, 7-212, 7-213, 7-214, 7-215, 7-216, 7-217, 7-218, 7-219, 7-220, 7-221, 7-222, 7-223, 7-224, 7-225, 7-226, 7-227, 7-228, 7-229, 7-230, 7-231, 7-232, 7-233, 7-234, 7-235, 7-236, 7-237, 7-238, 7-239, 7-240, 7-241, 7-242, 7-243, 7-244, 7-245, 7-246, 7-247, 7-248, 7-249, 7-250, 7-251, 7-252, 7-253, 7-254, 7-255, 7-256, 7-257, 7-258, 7-259, 7-260, 7-261, 7-262, 7-263, 7-264, 7-265, 7-266, 7-267, 7-268, 7-269, 7-270, 7-271, 7-272, 7-273, 7-274, 7-275, 7-276, 7-277, 7-278, 7-279, 7-280, 7-281, 7-282, 7-283, 7-284, 7-285, 7-286, 7-287, 7-288, 7-289, 7-290, 7-291, 7-292, 7-293, 7-294, 7-295, 7-296, 7-297, 7-298, 7-299, 7-300, 7-301, 7-302, 7-303, 7-304, 7-305, 7-306, 7-307, 7-308, 7-309, 7-310, 7-311, 7-312, 7-313, 7-314, 7-315, 7-316, 7-317, 7-318, 7-319, 7-320, 7-321, 7-322, 7-323, 7-324, 7-325, 7-326, 7-327, 7-328, 7-329, 7-330, 7-331, 7-332, 7-333, 7-334, 7-335, 7-336, 7-337, 7-338, 7-339, 7-340, 7-341, 7-342, 7-343, 7-344, 7-345, 7-346, 7-347, 7-348, 7-349, 7-350, 7-351, 7-352, 7-353, 7-354, 7-355, 7-356, 7-357, 7-358, 7-359, 7-360, 7-361, 7-362, 7-363, 7-364, 7-365, 7-366, 7-367, 7-368, 7-369, 7-370, 7-371, 7-372, 7-373, 7-374, 7-375, 7-376, 7-377, 7-378, 7-379, 7-380, 7-381, 7-382, 7-383, 7-384, 7-385, 7-386, 7-387, 7-388, 7-389, 7-390, 7-391, 7-392, 7-393, 7-394, 7-395, 7-396, 7-397, 7-398, 7-399, 7-400, 7-401, 7-402, 7-403, 7-404, 7-405, 7-406, 7-407, 7-408, 7-409, 7-410, 7-411, 7-412, 7-413, 7-414, 7-415, 7-416, 7-417, 7-418, 7-419, 7-420, 7-421, 7-422, 7-423, 7-424, 7-425, 7-426, 7-427, 7-428, 7-429, 7-430, 7-431, 7-432, 7-433, 7-434, 7-435, 7-436, 7-437, 7-438, 7-439, 7-440, 7-441, 7-442, 7-443, 7-444, 7-445, 7-446, 7-447, 7-448, 7-449, 7-450, 7-451, 7-452, 7-453, 7-454, 7-455, 7-456, 7-457, 7-458, 7-459, 7-460, 7-461, 7-462, 7-463, 7-464, 7-465, 7-466, 7-467, 7-468, 7-469, 7-470, 7-471, 7-472, 7-473, 7-474, 7-475, 7-476, 7-477, 7-478, 7-479, 7-480, 7-481, 7-482, 7-483, 7-484, 7-485, 7-486, 7-487, 7-488, 7-489, 7-490, 7-491, 7-492, 7-493, 7-494, 7-495, 7-496, 7-497, 7-498, 7-499, 7-500, 7-501, 7-502, 7-503, 7-504, 7-505, 7-506, 7-507, 7-508, 7-509, 7-510, 7-511, 7-512, 7-513, 7-514, 7-515, 7-516, 7-517, 7-518, 7-519, 7-520, 7-521, 7-522, 7-523, 7-524, 7-525, 7-526, 7-527, 7-528, 7-529, 7-530, 7-531, 7-532, 7-533, 7-534, 7-535, 7-536, 7-537, 7-538, 7-539, 7-540, 7-541, 7-542, 7-543, 7-544, 7-545, 7-546, 7-547, 7-548, 7-549, 7-550, 7-551, 7-552, 7-553, 7-554, 7-555, 7-556, 7-557, 7-558, 7-559, 7-560, 7-561, 7-562, 7-563, 7-564, 7-565, 7-566, 7-567, 7-568, 7-569, 7-570, 7-571, 7-5</td></tr></tbody></table>	NO.	DATE	REVISIONS	1	03-06-08	REVISED PER REVISIONS	2	10-23-08	REVISED PER DOT COMMENTS, SHEETS 6-6, 6-7, 6-8, 6-9, 6-10, 6-11, 6-12, 6-13, 6-14, 6-15, 6-16, 6-17, 6-18, 6-19, 6-20, 6-21, 6-22, 6-23, 6-24, 6-25, 6-26, 6-27, 6-28, 6-29, 6-30, 6-31, 6-32, 6-33, 6-34, 6-35, 6-36, 6-37, 6-38, 6-39, 6-40, 6-41, 6-42, 6-43, 6-44, 6-45, 6-46, 6-47, 6-48, 6-49, 6-50, 6-51, 6-52, 6-53, 6-54, 6-55, 6-56, 6-57, 6-58, 6-59, 6-60, 6-61, 6-62, 6-63, 6-64, 6-65, 6-66, 6-67, 6-68, 6-69, 6-70, 6-71, 6-72, 6-73, 6-74, 6-75, 6-76, 6-77, 6-78, 6-79, 6-80, 6-81, 6-82, 6-83, 6-84, 6-85, 6-86, 6-87, 6-88, 6-89, 6-90, 6-91, 6-92, 6-93, 6-94, 6-95, 6-96, 6-97, 6-98, 6-99, 6-100, 6-101, 6-102, 6-103, 6-104, 6-105, 6-106, 6-107, 6-108, 6-109, 6-110, 6-111, 6-112, 6-113, 6-114, 6-115, 6-116, 6-117, 6-118, 6-119, 6-120, 6-121, 6-122, 6-123, 6-124, 6-125, 6-126, 6-127, 6-128, 6-129, 6-130, 6-131, 6-132, 6-133, 6-134, 6-135, 6-136, 6-137, 6-138, 6-139, 6-140, 6-141, 6-142, 6-143, 6-144, 6-145, 6-146, 6-147, 6-148, 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NO.	DATE	REVISIONS							
1	03-06-08	REVISED PER REVISIONS							
2	10-23-08	REVISED PER DOT COMMENTS, SHEETS 6-6, 6-7, 6-8, 6-9, 6-10, 6-11, 6-12, 6-13, 6-14, 6-15, 6-16, 6-17, 6-18, 6-19, 6-20, 6-21, 6-22, 6-23, 6-24, 6-25, 6-26, 6-27, 6-28, 6-29, 6-30, 6-31, 6-32, 6-33, 6-34, 6-35, 6-36, 6-37, 6-38, 6-39, 6-40, 6-41, 6-42, 6-43, 6-44, 6-45, 6-46, 6-47, 6-48, 6-49, 6-50, 6-51, 6-52, 6-53, 6-54, 6-55, 6-56, 6-57, 6-58, 6-59, 6-60, 6-61, 6-62, 6-63, 6-64, 6-65, 6-66, 6-67, 6-68, 6-69, 6-70, 6-71, 6-72, 6-73, 6-74, 6-75, 6-76, 6-77, 6-78, 6-79, 6-80, 6-81, 6-82, 6-83, 6-84, 6-85, 6-86, 6-87, 6-88, 6-89, 6-90, 6-91, 6-92, 6-93, 6-94, 6-95, 6-96, 6-97, 6-98, 6-99, 6-100, 6-101, 6-102, 6-103, 6-104, 6-105, 6-106, 6-107, 6-108, 6-109, 6-110, 6-111, 6-112, 6-113, 6-114, 6-115, 6-116, 6-117, 6-118, 6-119, 6-120, 6-121, 6-122, 6-123, 6-124, 6-125, 6-126, 6-127, 6-128, 6-129, 6-130, 6-131, 6-132, 6-133, 6-134, 6-135, 6-136, 6-137, 6-138, 6-139, 6-140, 6-141, 6-142, 6-143, 6-144, 6-145, 6-146, 6-147, 6-148, 6-149, 6-150, 6-151, 6-152, 6-153, 6-154, 6-155, 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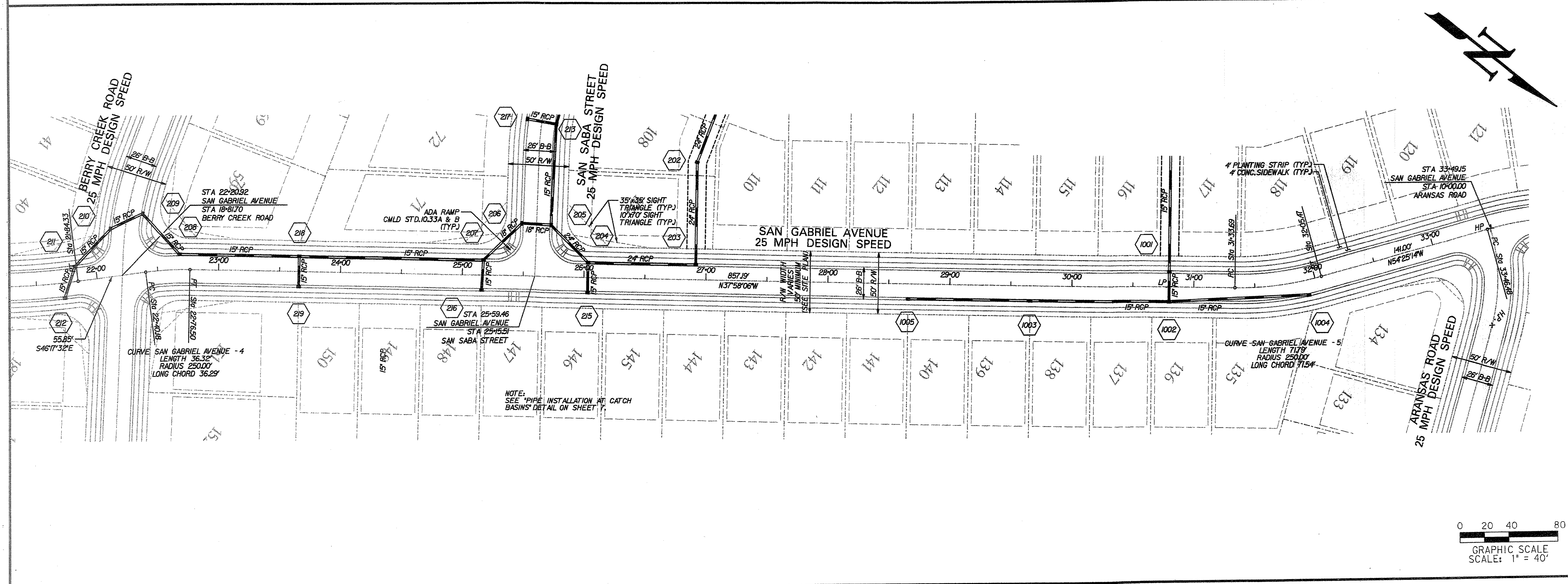
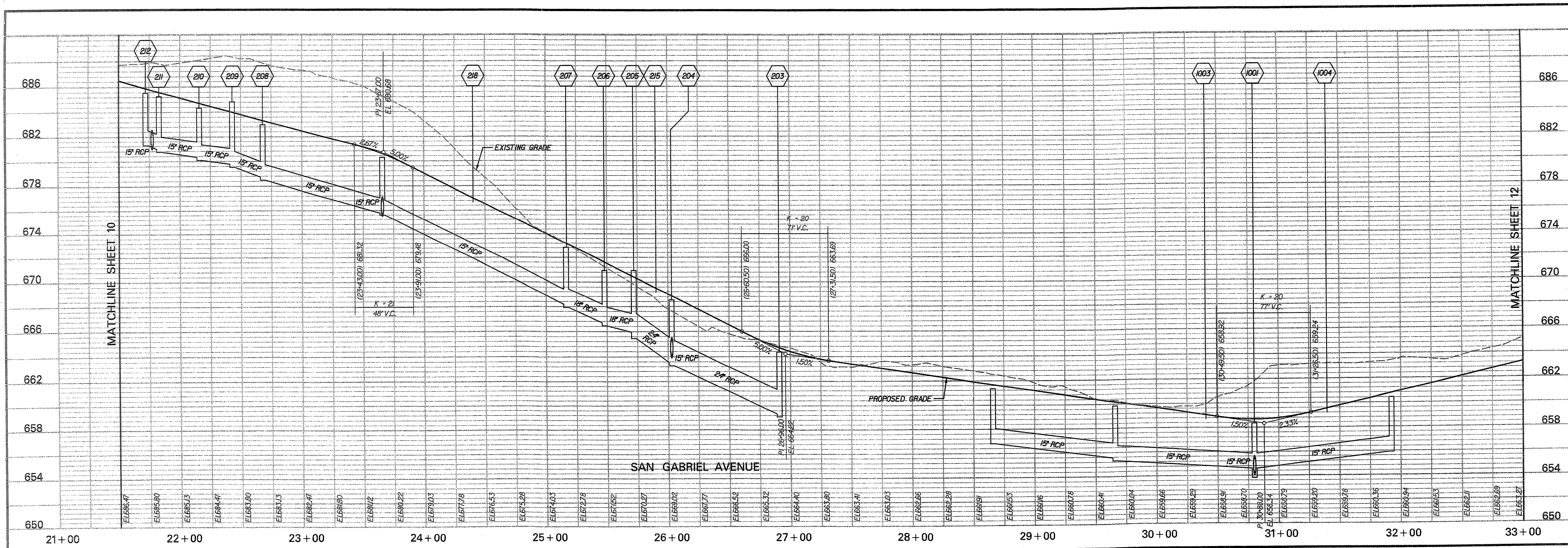
DATE: 10-25-2005		TECHNICIAN: CIL		SHEET NO. 9 OF 45
CHECKED BY: JIM		SCALE: 1"=40' HORIZ., 1"=4' VERT.		
PROJECT NO.		DRAWING TITLE:		
PROJECT NO.		DRAWING TITLE:		

NO.	DATE	REVISIONS
1	09-04-05	REVISED PER REMARKS
2	10-24-05	REVISED PER REMARKS
3	11-27-05	REVISED PER REMARKS
4	01-10-07	REVISED PER REMARKS
5	10-26-07	REVISED PER REMARKS

PROJECT	CLIENT
The Rapids at Belmeade Belmeade Dr. (S.R. 1000), Charlotte, NC 28214	LandCraft Properties, Inc. 1435 West Morehead St., Suite 135, Charlotte, NC 28208

TASK	
VERDE CREEK ROAD (3 OF 3) PLAN & PROFILE	

8041 Corporate Center Drive Suite 200 Charlotte, NC 28226 Phone: (704) 540-4706 Fax: (704) 540-4708	



PROJECT

The Rapids at Belmeade

Belmeade Dr. (S.R. 606), Charlotte, NC 28214

CLIENT

LandCraft Properties, Inc.

1435 West Morehead St., Suite 135, Charlotte, NC 28208

TASK

SAN GABRIEL AVENUE (2 OF 3)

PLAN & PROFILE

DATE: 10-23-07

TECHNICIAN: JLM

CHECKED BY: JLM

SCALE: 1"=40' HORIZ, 1"=4' VERT.

PROJECT NO.: 08-03-07

DRAWING TITLE: SAN GABRIEL AVENUE

REVISIONS:

NO.	DATE	REVISIONS
1	08-03-07	REVISED PER REVISIONS
2	10-23-07	REVISED PER DOT COMMENTS, SHEETS 6 & 6 REVISED
3	11-27-07	REVISED PER DOT COMMENTS, SHEETS 6 & 6 REVISED
4	01-10-07	REVISED PER DOT COMMENTS, SHEETS 6 & 6 REVISED

REVISIONS

NO. DATE REVISIONS

DATE: 10-23-07

TECHNICIAN: JLM

CHECKED BY: JLM

SCALE: 1"=40' HORIZ, 1"=4' VERT.

PROJECT NO.: 08-03-07

DRAWING TITLE: SAN GABRIEL AVENUE

PROJECT

The Rapids at Belmeade

Belmeade Dr. (S.R. 606), Charlotte, NC 28214

CLIENT

LandCraft Properties, Inc.

1435 West Morehead St., Suite 135, Charlotte, NC 28208

TASK

SAN GABRIEL AVENUE (2 OF 3)

PLAN & PROFILE

DATE: 10-23-07

TECHNICIAN: JLM

CHECKED BY: JLM

SCALE: 1"=40' HORIZ, 1"=4' VERT.

PROJECT NO.: 08-03-07

DRAWING TITLE: SAN GABRIEL AVENUE

REVISIONS

NO. DATE REVISIONS

DATE: 10-23-07

TECHNICIAN: JLM

CHECKED BY: JLM

SCALE: 1"=40' HORIZ, 1"=4' VERT.

PROJECT NO.: 08-03-07

DRAWING TITLE: SAN GABRIEL AVENUE

PROJECT

The Rapids at Belmeade

Belmeade Dr. (S.R. 606), Charlotte, NC 28214

CLIENT

LandCraft Properties, Inc.

1435 West Morehead St., Suite 135, Charlotte, NC 28208

TASK

SAN GABRIEL AVENUE (2 OF 3)

PLAN & PROFILE

DATE: 10-23-07

TECHNICIAN: JLM

CHECKED BY: JLM

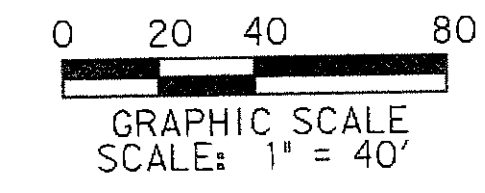
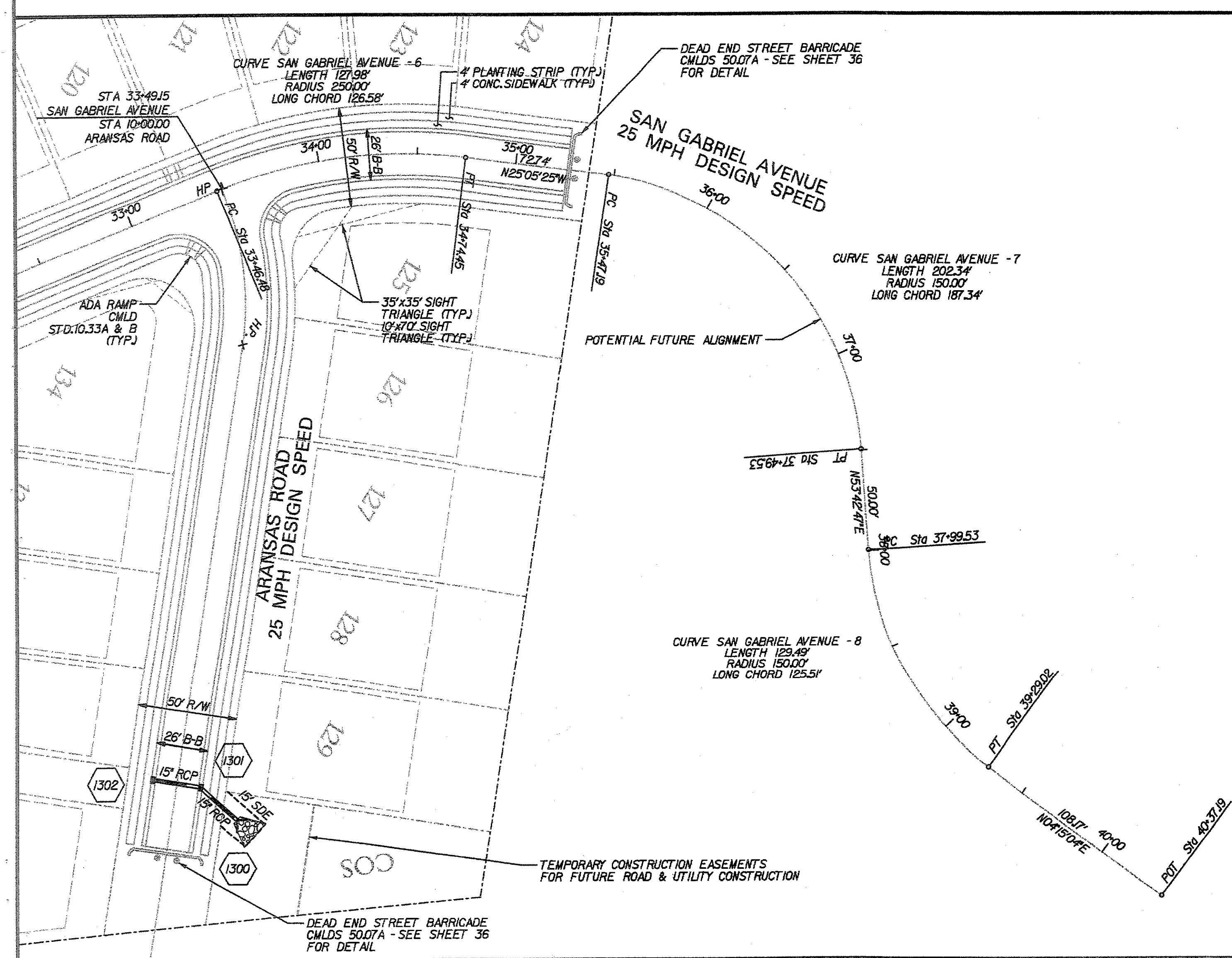
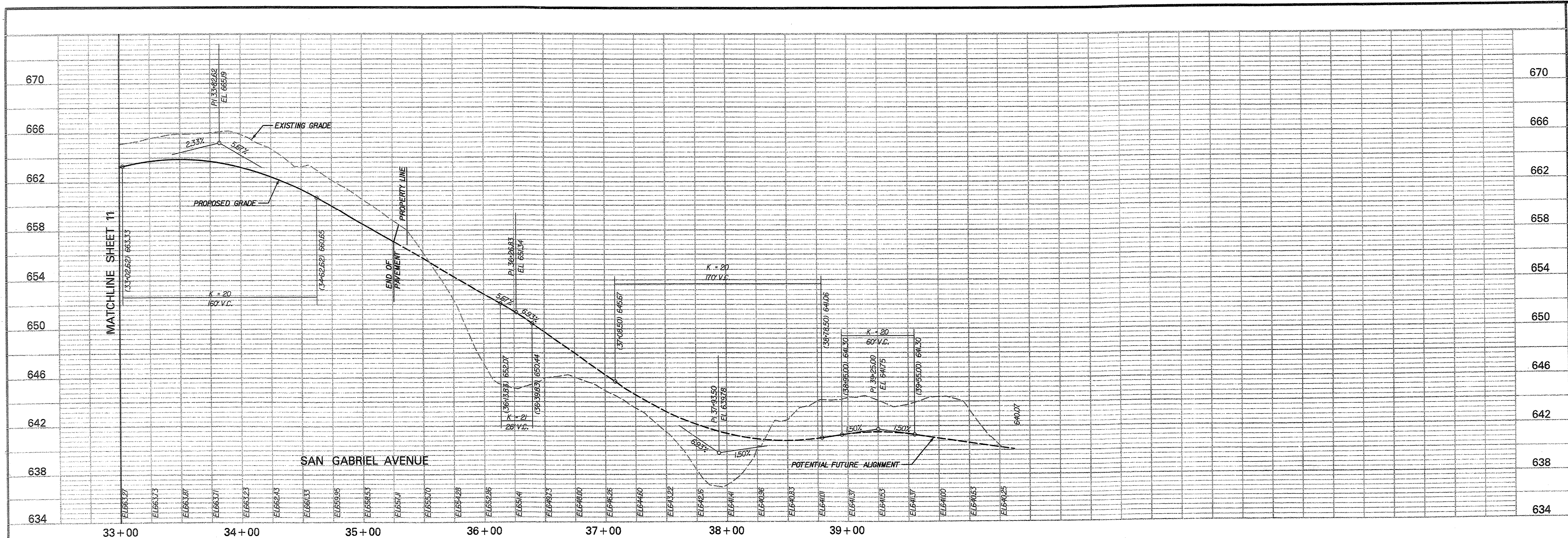
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PROJECT NO.: 08-03-07

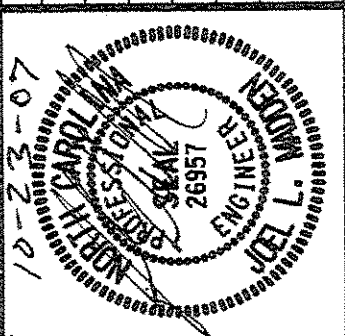
DRAWING TITLE: SAN GABRIEL AVENUE

INSITE
Engineering & Surveying

8041 Corporate Center Drive
Suite 200
Charlotte, NC 28226
Phone: (704) 540-4706
Fax: (704) 540-4708



DATE:	10-25-2008
TECHNICIAN:	CLL
CHECKED BY:	JLM
SCALE:	1"=40' HORIZ. 1"=4' VERT.
PROJECT NO.:	28226
DRAWING TITLE:	ROADWAY



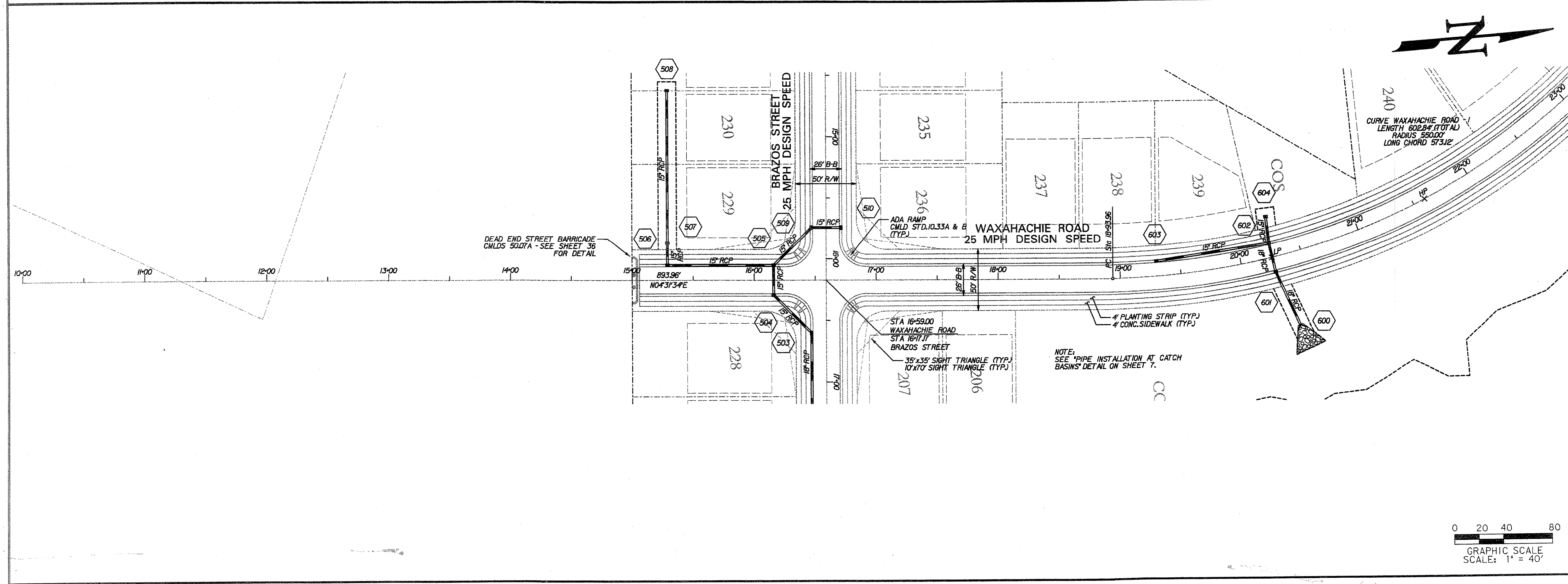
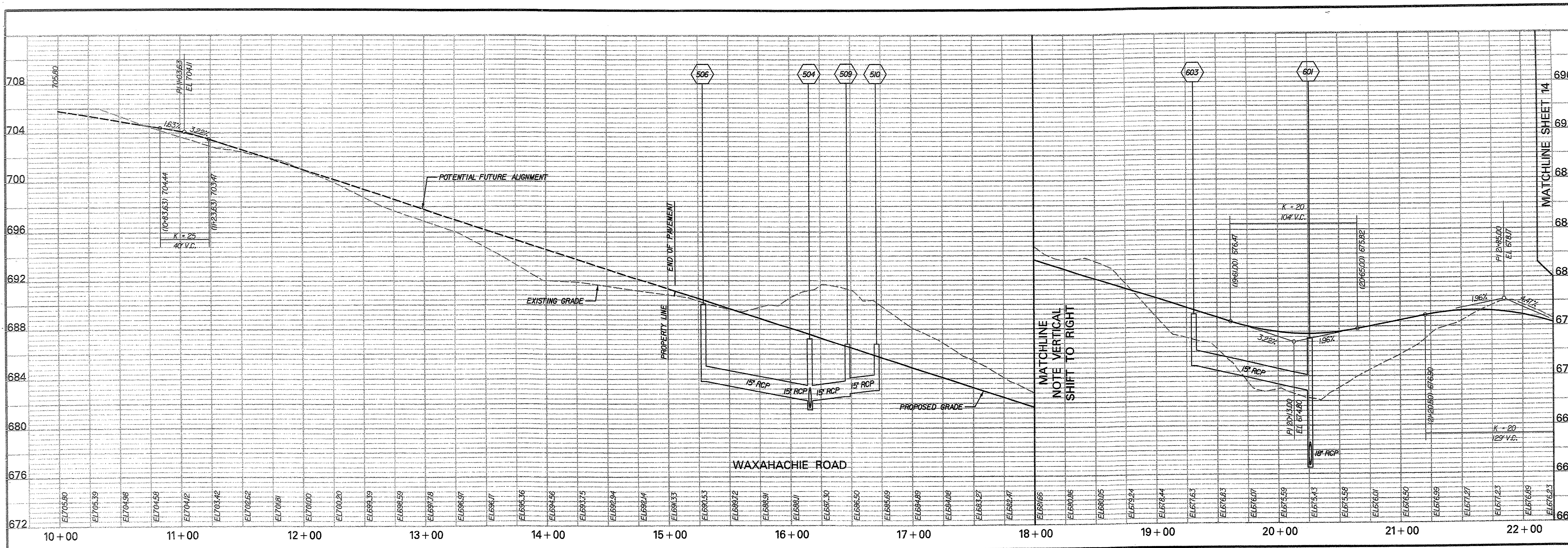
NO.	DATE	REVISIONS
1	08-06-06	REVISED PER REVISIONS
2	10-25-06	REVISED PER REVISIONS
3	11-29-06	REVISED PER DOT COMMENTS SHEETS 6A-6E REVISED
4	01-16-07	REVISED PER DOT LAYOUT-SITE TRIANGLE NOTE
5	06-04-07	ON CORRESPONDING
6	06-04-07	PLAN REVISED TO ADD ADDITIONAL PARCEL AND RE
7	10-25-07	REVISED PER REVISIONS

PROJECT
The Rapids at Belmeade
Belmeade Dr. (S.R. 1006), Charlotte, NC 28214

CLIENT
LandCraft Properties, Inc.
1435 West Morehead St., Suite 135, Charlotte, NC 28208

TASK
SAN GABRIEL AVENUE (3 OF 3)
PLAN & PROFILE

INSITE
Engineering & Surveying
8041 Corporate Center Drive
Suite 200
Charlotte, NC 28226
Phone: (704) 540-4706
Fax: (704) 540-4708



PROJECT

The Rapids at Belmeade

Belmeade Dr. (S.R. 606), Charlotte, NC 28214

CLIENT

LandCraft Properties, Inc.

1435 West Morehead St., Suite 135, Charlotte, NC 28208

NO.

1

2

3

4

DATE

09-25-06

10-23-06

11-27-06

01-12-07

REVISIONS

REVISED PER REDLINES

REVISED PER REDLINES

REVISED PER DOT COMMENTS, SHEETS 64-66 REVISED

REVISED INTERNAL LOT LAYOUT-BET TRIANGLE NOTE

REVISIONS

REVISED PER REDLINES

REVISED PER REDLINES

REVISED PER REDLINES

REVISED PER REDLINES

DATE

09-25-06

TECHNICAL

JLM

CHECKED BY

JLM

SCALE

1" = 40' HORIZ, 1" = 4' VERT.

PROJECT NO.

00000000

DRAWING TITLE

ROADS

SHEET NO.

13 OF 45

WAXAHACHIE ROAD (1 OF 2)

PLAN & PROFILE

IN SITE

Engineering & Surveying

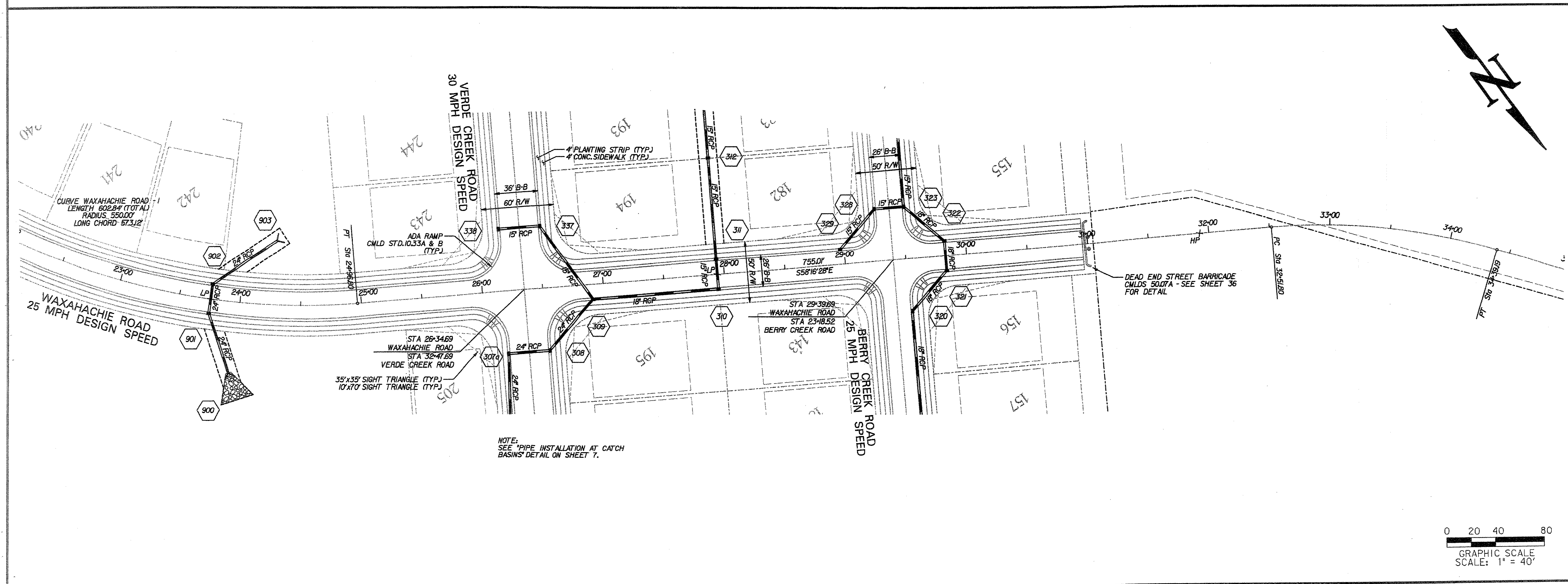
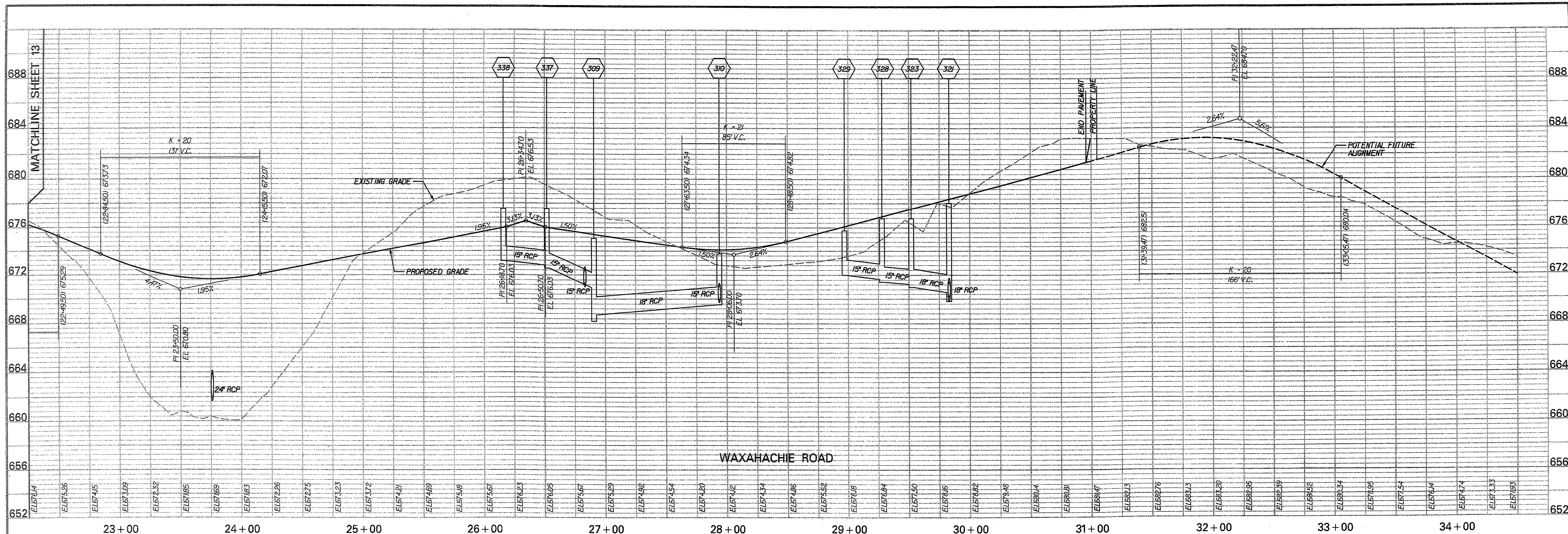
8041 Corporate Center Drive

Suite 200

Charlotte, NC 28226

Phone: (704) 540-4706

Fax: (704) 540-4708



REVISIONS

NO.	DATE	REVISIONS
1	10-23-07	REVISED FOR REVISIONS
2	10-23-07	REVISED FOR REVISIONS
3	10-23-07	REVISED FOR REVISIONS
4	10-23-07	REVISED FOR REVISIONS
5	10-23-07	REVISED FOR REVISIONS

PROJECT

The Rapids at Belmeade
Belmeade Dr. (S.R. 1600); Charlotte, NC 28214

CLIENT

LandCraft Properties, Inc.
1435 West Morehead St., Suite 135; Charlotte, NC 28208

TASK

WAXAHACHIE ROAD (2 OF 2)
PLAN & PROFILE

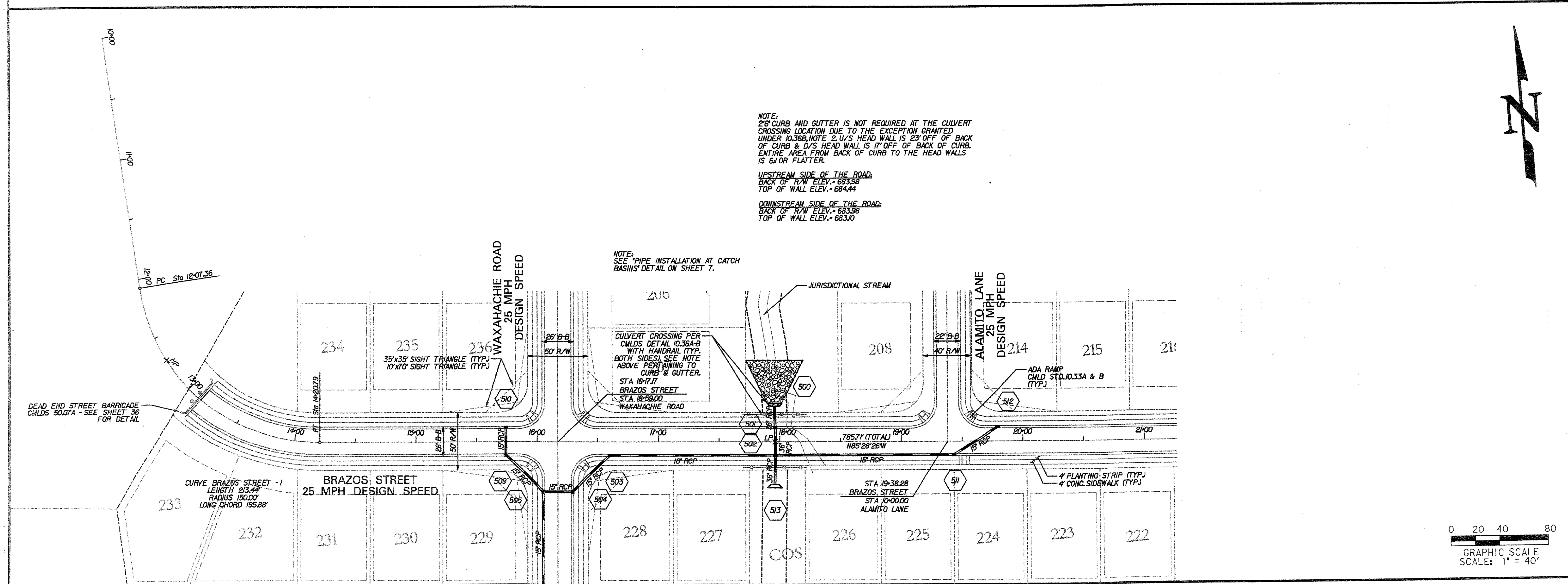
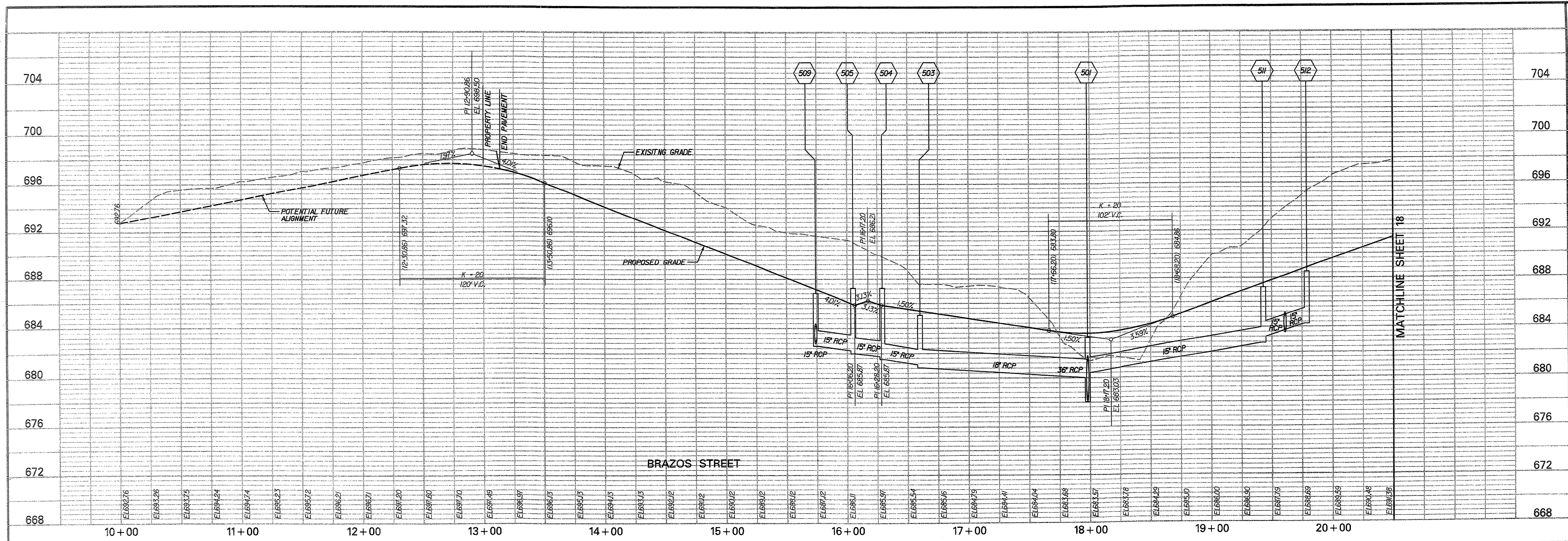
IN SITE
Engineering & Surveying

8041 Corporate Center Drive
Suite 200
Charlotte, NC 28226
Phone: (704) 540-4708
Fax: (704) 540-4708

GRAPHIC SCALE
SCALE: 1" = 40'

0 20 40 80

DATE: 10-23-07
TECHNICIAN: JAL
CHECKED BY: JAL
SCALE: 1"=40' HORIZ, 1"=4' VERT.
PROJECT NO.: 2851
DRAWING TITLE: WAXAHACHIE ROAD
SHEET NO.: 14 OF 45



DATE: 10-23-07		TECHNICAL: CAROL M. L. WILSON		SHEET NO. 17 OF 45	
CHECKED BY: JLM		PROJECT NO. 0805		DRAWING TITLE: ROAD & RAIL	
SCALE: 1"=40' HORIZ. 1"=4' VERT.		PROJECT NO. 0805		DRAWING TITLE: ROAD & RAIL	
PROJECT NO. 0805		DRAWING TITLE: ROAD & RAIL		DRAWING TITLE: ROAD & RAIL	

NO.	DATE	REVISIONS
1	09-06-06	REVISED PER REDLINES
2	10-23-07	REVISED PER REDLINES
3	11-27-07	REVISED PER DOT COMMENTS SHEETS 6 & 8
4	01-18-08	REVISED INTERNAL LOT LAYOUT-SEE TRAILER NOTE
5	01-18-08	FOR CONCRETE
6	10-23-07	REVISED PER REDLINES

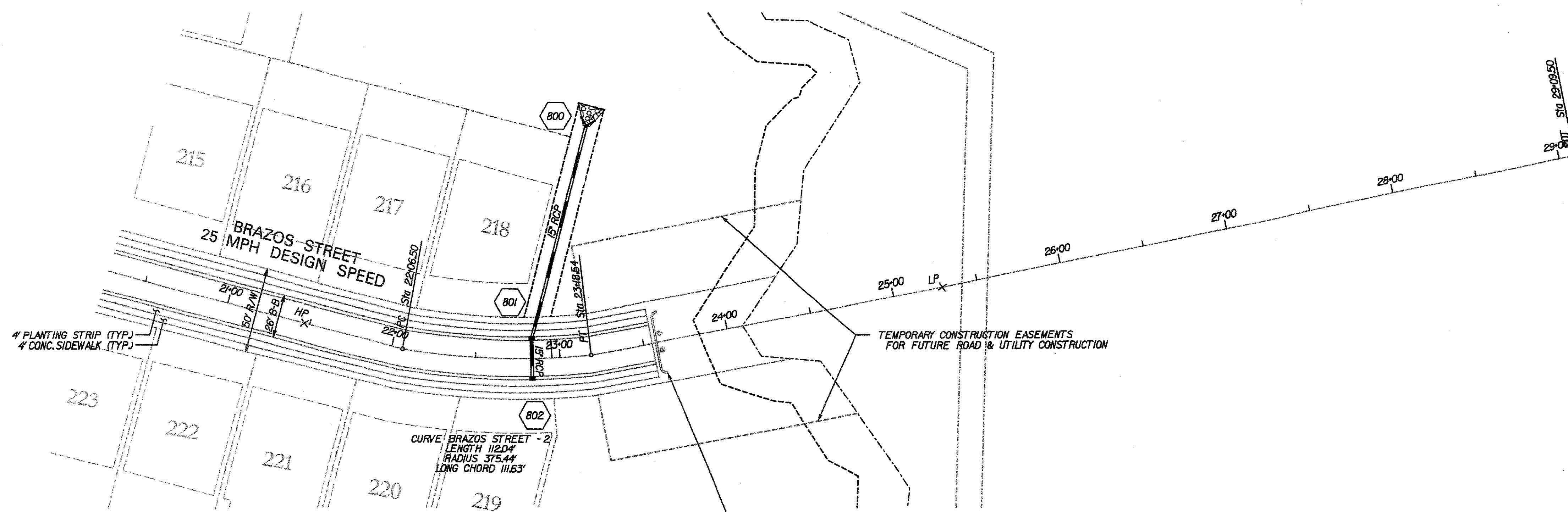
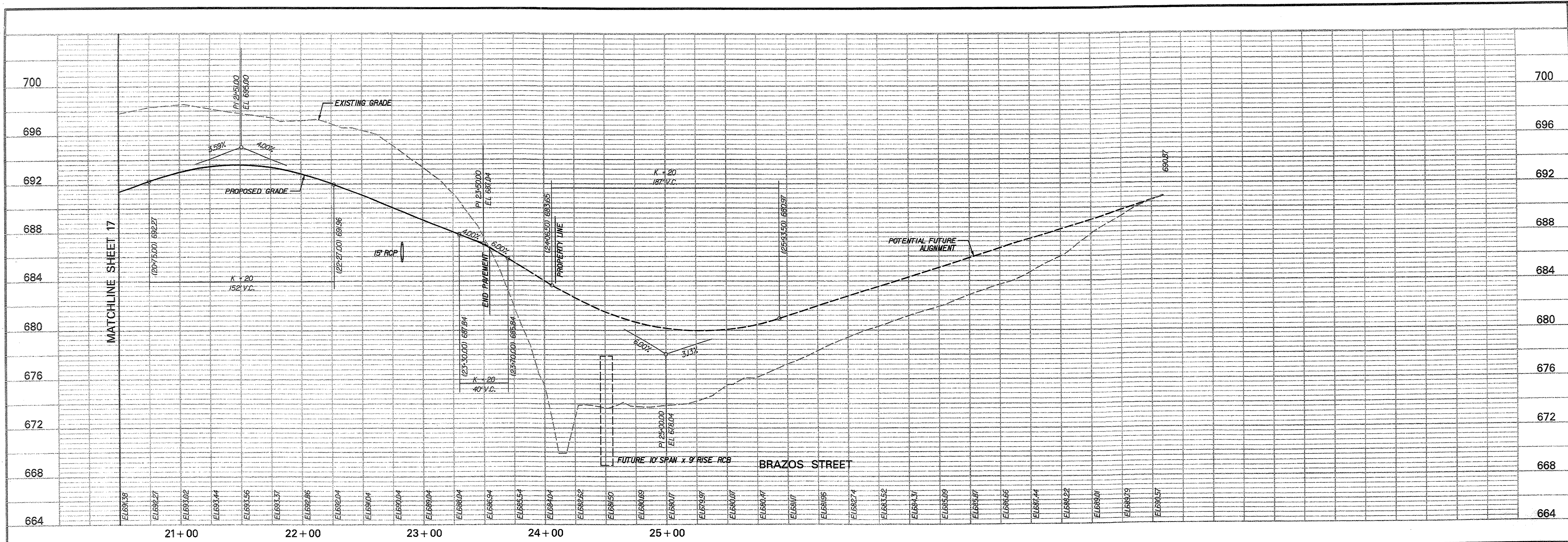
PROJECT: **The Rapids at Belmeade**
Belmeade Dr. (S.B. 1606); Charlotte, NC 28214

CLIENT: **LandCraft Properties, Inc.**
1435 West Morehead St., Suite 135; Charlotte, NC 28208

TASK: **BRAZOS STREET (1 OF 2)
PLAN & PROFILE**

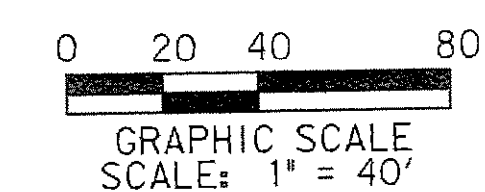
INSITE
Engineering & Surveying

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Suite 200
Charlotte, NC 28226
Phone: (704) 540-4706
Fax: (704) 540-4708

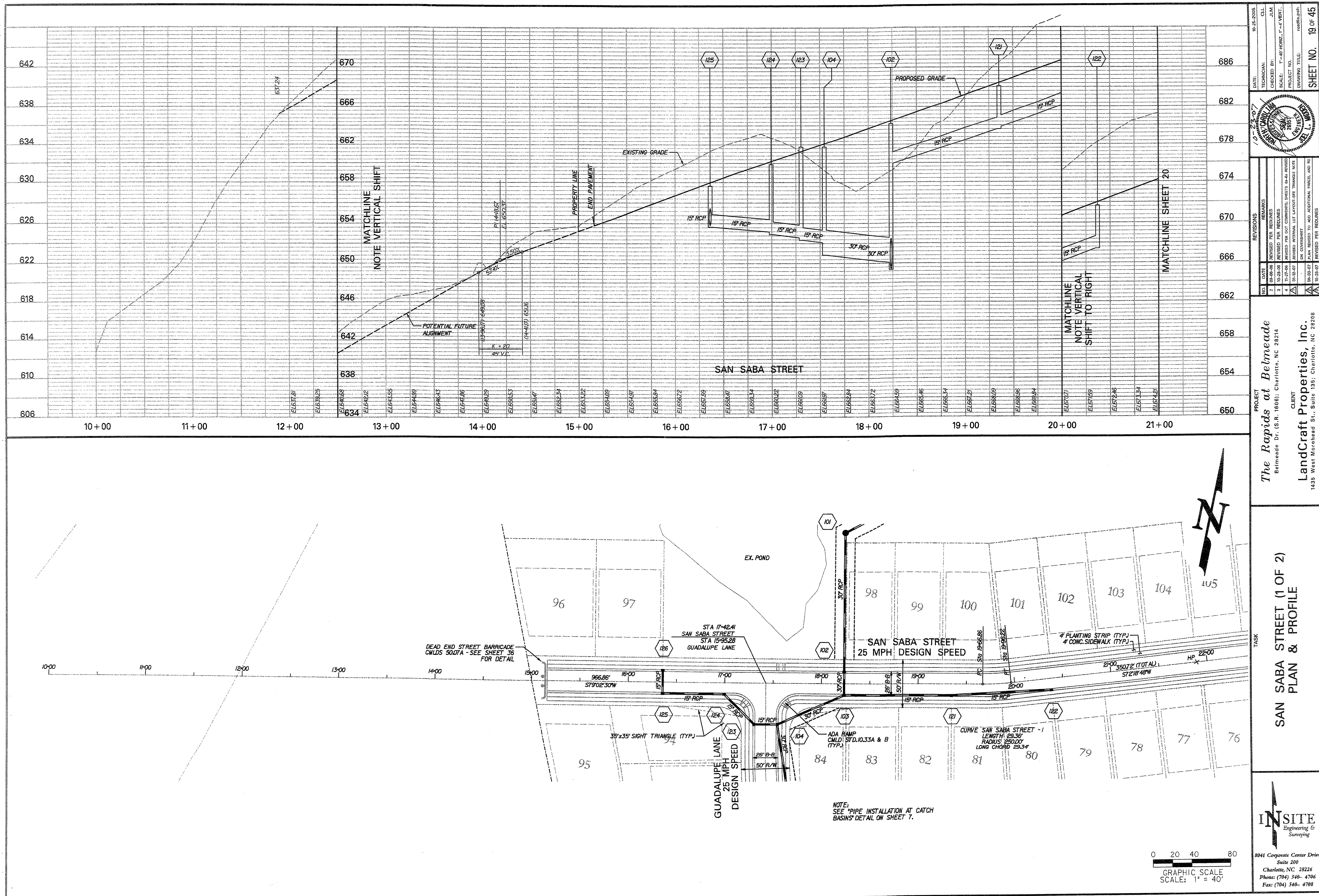


NOTE:
SEE "PIPE INSTALLATION AT CATCH
BASINS" DETAIL ON SHEET 7.

DEAD END STREET BARRICADE
CMLDS 5007A - SEE SHEET 36
FOR DETAIL



PROJECT The Rapids at Belmeade Belmeade Dr. (S.R. 1606), Charlotte, NC 28214		CLIENT LandCraft Properties, Inc. 1435 West Morehead St., Suite 135, Charlotte, NC 28208	
TASK BRAZOS STREET (2 OF 2) PLAN & PROFILE		DATE 10-25-07	
REVISIONS		TECHNICAL CUL JLM	
NO. DATE REVISIONS 1 08-04-07 REVISED PER REVISIONS 2 10-23-07 REVISED PER REVISIONS 3 11-27-07 REVISED PER DOT COMMENTS SHEETS 8-9-6 REVISED 4 01-22-07 REVISED PER DOT COMMENTS SHEETS 8-9-6 REVISED 5 01-22-07 REVISED PER DOT COMMENTS SHEETS 8-9-6 REVISED		CHECKED BY: SCALE: 1" = 40' HORIZ. 1" = 4' VERT. PROJECT NO. DRAWING TITLE: SHEET NO. 18 OF 45	



DATE: 10-25-2005
TECHNICIAN: C.L.L.
CHECKED BY: J.L.M.
SCALE: 1"=40' HORIZ. 1"=4' VERT.
PROJECT NO. 2005-001
DRAWING TITLE: SAN SABA STREET
SHEET NO. 19 OF 45

NO.	DATE	REVISIONS
1	09-09-06	REVISED PER REVISIONS
2	10-25-06	REVISED PER DOT COMMENTS; SHEET'S 64-65 REVISED
3	11-27-06	REVISED PER DOT COMMENTS; SHEET'S 64-65 REVISED
4	11-27-06	REVISED INTERNAL LOT LAYOUTS; SHEET'S 64-65 REVISED
5	11-27-06	ON COVER SHEET
6	10-25-07	PLAN REVISED TO ADD ADDITIONAL PARCELS AND RD
7	10-25-07	REVISED PER REVISIONS

PROJECT: **The Rapids at Belmeade**
Belmeade Dr. (S.R. 1000); Charlotte, NC 28214

CLIENT: **LandCraft Properties, Inc.**
1435 West Morehead St., Suite 135; Charlotte, NC 28208

TASK: **SAN SABA STREET (1 OF 2)
PLAN & PROFILE**

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Engineering & Surveying

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Fax: (704) 540-4708