

# CITY OF RICHMOND, VIRGINIA

## DEPARTMENT OF PUBLIC WORKS

### TRANSPORTATION ENGINEERING DIVISION



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TOTAL NUMBER OF SHEETS	10

#### REVISIONS

NO.	DATE	COMMENTS
-	-	-

## RESIDENTIAL TRAFFIC CALMING IMPROVEMENTS

### TRAFFIC CIRCLES AT CHIMBORAZO BLVD, M ST, AND S ST

**PROJECT NUMBER: 040-290-8910-8973-8976**

#### CITY OF RICHMOND

APPROVED FOR CONSTRUCTION

DATE	SURVEY'S SUPERINTENDENT
DATE	PROJECT MANAGER
DATE	MAINTENANCE ENGINEER
DATE	CITY TRANSPORTATION ENGINEER
DATE	CAPITAL PROJECTS ADMINISTRATOR
DATE	CITY ENGINEER
DATE	DIRECTOR OF PUBLIC WORKS



**VICINITY MAP**

SCALE: 1" = 1000'

DENOTES TRAFFIC CIRCLE LOCATIONS

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE CITY OF RICHMOND.

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE VDOT'S 2007 ROAD AND BRIDGE SPECIFICATIONS, 2008 ROAD AND BRIDGE STANDARDS, 2011 WORK AREA PROTECTION MANUAL, 2009 MUTCD AND AS AMENDED BY THE CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC .PDF VERSION OF THE PLAN ASSEMBLY.

NO ADDITIONAL RIGHT OF WAY REQUIRED.

**JANUARY 31, 2014**

SUPERVISED BY \_\_\_\_\_ S. DUNN  
 DESIGNED BY \_\_\_\_\_ T. RUFF  
 CADD OPERATOR \_\_\_\_\_ T. RUFF  
 REVISED BY \_\_\_\_\_

PLAN NO.	DATE	BY	REVISION

	DESIGN: T. RUFF	CITY OF RICHMOND RESIDENTIAL TRAFFIC CALMING IMPROVEMENTS  TITLE SHEET		
	CHECKED: S. DUNN			
	APPROVED:			
	DATE JAN 31, 2014	SCALE N/A	DRAWING NO. 0-28351	
AS BUILT NO	PLAN NO.	PROJECT 040-290-8910-8973-8976	FILE NO.	SHEET NO. 01

# CONSTRUCTION NOTES

## GENERAL NOTES

- THE CONTRACTOR SHALL PERFORM ALL WORK AND CONSTRUCTION OR INSTALLATION OF ALL ITEMS WITHIN THE EXISTING CITY OF RICHMOND RIGHT-OF-WAY.
- ALL ITEMS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE LATEST APPLICABLE STANDARDS AND SPECIFICATIONS OF THE CITY OF RICHMOND, THE LATEST STANDARDS AND SPECIFICATIONS OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT), AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), WHICHEVER IS MORE RESTRICTIVE, UNLESS OTHERWISE NOTED ON THE PLANS.
- PRIOR TO CONSTRUCTION OR EXCAVATION, THE CONTRACTOR SHALL ASSUME THE RESPONSIBILITY OF LOCATING ANY UNDERGROUND UTILITIES (PUBLIC OR PRIVATE) THAT MAY EXIST AND CROSS THROUGH THE AREA OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT THE HIS EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION. THE LOCATION OF EXISTING LINES, CONDUITS, OR OTHER STRUCTURES ACROSS, UNDERNEATH, OR OTHERWISE ALONG THE LINE OF PROPOSED WORK ARE NOT NECESSARILY SHOWN ON THESE PLANS, AND IF SHOWN, ARE ONLY APPROXIMATELY CORRECT. THE CONTRACTOR SHALL BE LIABLE FOR ALL DAMAGE DONE TO ANY STRUCTURES OR PROPERTY THROUGH HIS NEGLIGENCE OR CARELESSNESS. THE PROJECT MANAGER SHALL BE CONTACTED IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLANS, IF THERE APPEARS TO BE A CONFLICT, OR UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL CONTACT "MISS UTILITY" (1-800-552-7001) PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF RICHMOND PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEERING DIVISION IN WRITING 72 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- ANY DEVIATION FROM THE APPROVED PLANS AND/OR STANDARDS AND SPECIFICATIONS MUST BE APPROVED BY THE CITY TRAFFIC ENGINEERING DIVISION IN WRITING PRIOR TO START OF WORK.
- IF A CONFLICT IS FOUND TO EXIST, THE CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEERING DIVISION BEFORE ANY WORK IS STARTED IN ORDER TO COORDINATE THE REMAINDER OF THE WORK TO BE DONE.
- THE CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO EXISTING RESIDENCES AND BUSINESSES DURING CONSTRUCTION. WHEN SERVICES ARE TO BE INTERRUPTED FOR CUT-INS, PLUGGING, OR ABANDONMENT ETC., THE CONTRACTOR SHALL PROVIDE THE CITY WITH 72 HOURS NOTICE. THE AFFECTED PROPERTY OWNER, RESIDENCE OR BUSINESS SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF SERVICE INTERRUPTIONS. ALL UTILITY SERVICE INTERRUPTIONS SHALL BE KEPT TO AN ABSOLUTE MINIMUM. THE CONTRACTOR SHALL PROVIDE THE PROJECT MANAGER WITH A DETAILED PLAN AND SCHEDULE FOR SERVICE INTERRUPTIONS. A MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE OF SUCH WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING UTILITIES AND SHALL REPLACE AT NO ADDITIONAL COST, IF DAMAGED, AS DIRECTED BY THE CITY. EXISTING UTILITIES THAT ARE IN CONFLICT AND MAY NEED TO BE REMOVED OR RELOCATED WILL BE COORDINATED BY THE CITY. RELOCATIONS OF CITY FACILITIES WILL BE ADMINISTERED BY THE CITY DEPARTMENT OF PUBLIC UTILITIES. IN CASE OF EMERGENCIES OF UTILITY BREAKAGE/CONFLICT CONTACT:
 

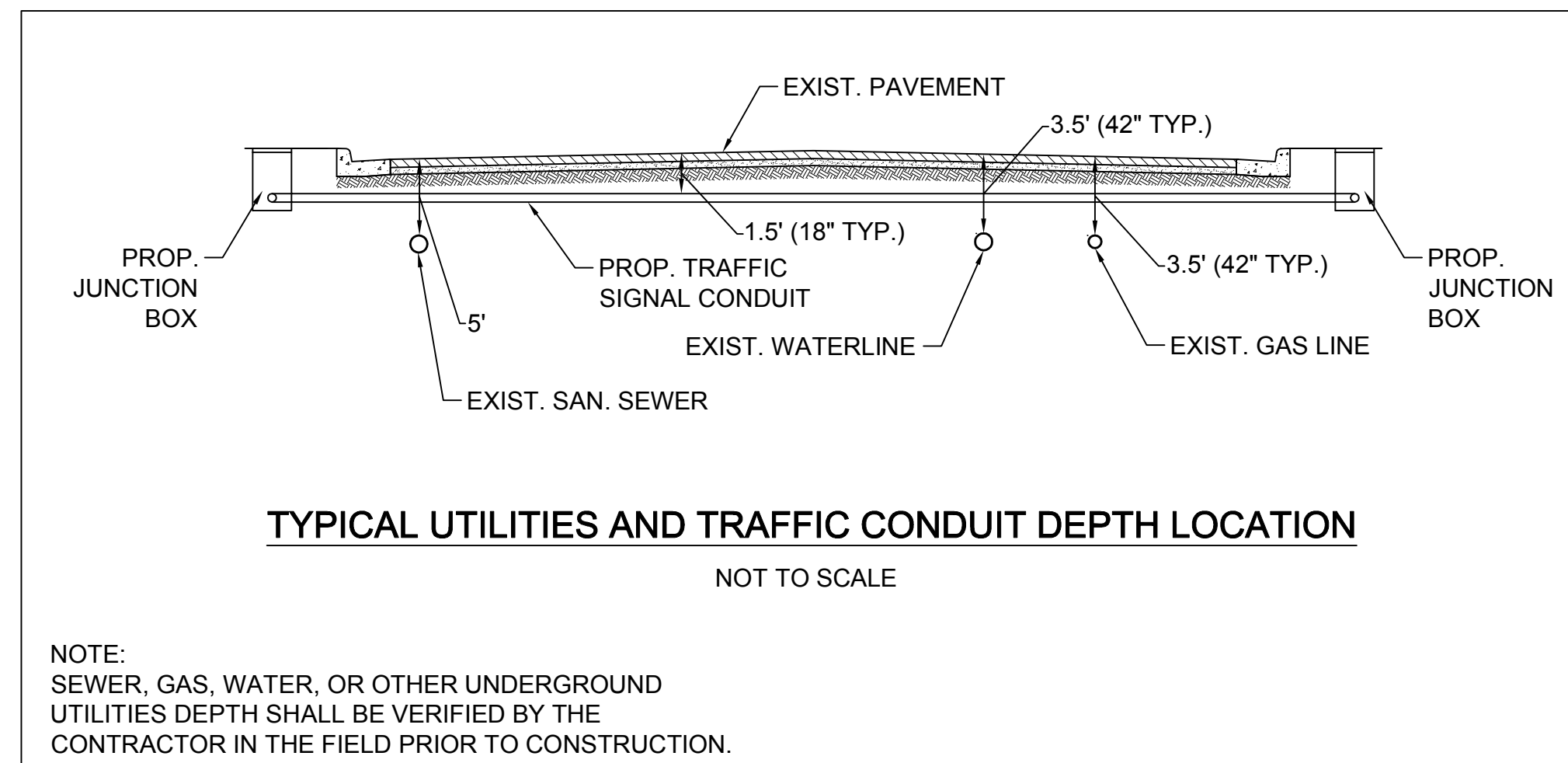
UTILITY	TELEPHONE NUMBER
GAS	646-8300, 646-8309, 646-8310
WATER	646-8300, 646-8309, 646-8310
SEWER	646-8600, 646-8426
POWER	888-667-3000
- ALL UTILITY CLEARANCES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE OBTAINED PRIOR TO CONSTRUCTION. EXCAVATION WITHIN 1.5' OF GAS OR ELECTRIC LINES SHALL BE PERFORMED BY HAND.
- THE CONTRACTOR SHALL SUBMIT A SEPARATE INTERSECTION TRANSITION PLAN, TO THE ENGINEER FOR APPROVAL A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF INTERSECTION CONSTRUCTION. INCLUDED IN THIS PLAN SHALL BE TRAFFIC MAINTENANCE PROCEDURES TO BE USED DURING CONSTRUCTION. SEE TRAFFIC MANAGEMENT PLAN NARRATIVE ON THIS SHEET.
- INSTALLATION DIMENSIONS SHOWN WITHIN THE PLANS ARE TYPICAL. MODIFICATIONS SHALL BE MADE AS REQUIRED UNDER APPROVAL FROM THE ENGINEER.
- DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE CITY OF RICHMOND.
- THE CONTRACTOR SHALL ADEQUATELY SUPPORT, AND BE RESPONSIBLE FOR, ALL UTILITY LINES EXPOSED AS A RESULT OF CONSTRUCTION ACTIVITY SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL PROVIDE ACCESS THROUGH THE SITE AS DIRECTED BY THE ENGINEER AT ALL TIMES DURING CONSTRUCTION AND SHALL ENSURE THE SAFETY OF PEDESTRIANS FROM TRAFFIC AND CONSTRUCTION HAZARDS.
- THE TOTAL DISTURBED AREA FOR THE PROPOSED TRAFFIC IMPROVEMENTS IS LESS THAN 10,000 SF FOR THIS PROJECT, AND THEREFORE EXEMPTED FROM THE NEED FOR A FORMAL EROSION & SEDIMENT CONTROL PLAN.

## TRANSPORTATION MANAGEMENT PLAN

- THE CONTRACTOR MUST ADVISE EMERGENCY COMMUNICATIONS AT 804-646-5700 OF THE CITY ON ALL PLANNED LANE CLOSURES 24 HOURS IN ADVANCE.
- TRAFFIC INCIDENTS THAT MAY OCCUR IN THE WORK ZONE:
  - INSPECTOR SHALL NOTIFY PROJECT MANAGER (TOM FLYNN) OF THE TRAFFIC INCIDENT AND TAKE PICTURES OF THE WORK ZONE SETUP.
  - CONTRACTOR MAY HAVE TO SHUT DOWN THE WORK DEPENDING UPON THE INCIDENT SEVERITY.
  - THE CITY POLICE WILL DETERMINE THE RESPONSE NECESSARY TO ALLOW TRAVELING PUBLIC AROUND INCIDENT, TAKE CONTROL OF THE INCIDENT, AND DIRECT ITS CLEARING AND RESTORATION TO NORMAL TRAFFIC CONDITIONS.
- THE CITY POLICE INCIDENT REPORT WILL BE REVIEWED BY THE CITY PROJECT MANAGER (TOM FLYNN) AT 804-646-5402 TO DETERMINE ANY NEEDED MODIFICATIONS TO THE WORK ZONE LAYOUT. IF CHANGES ARE NECESSARY THEN A MEETING WILL BE CALLED WITH THE CONTRACTOR, CITY INSPECTOR AND CITY PROJECT MANAGER TO DISCUSS MODIFICATION AND IMPLEMENTATION OF AN IMPROVED TRAFFIC CONTROL PLAN.
- THE WORK ZONE SHALL BE MAINTAINED ACCORDING TO THE CITY'S DEPARTMENT OF PUBLIC WORKS SPECIAL PROVISIONS. ALSO THE FOLLOWING TRAFFIC CONTROL SPECIFICATIONS FROM THE VDOT 2011 WORK AREA PROTECTION MANUAL WILL BE USED:
  - TYPICAL TRAFFIC CONTROL - STATIONARY OPERATION ON SHOULDER (FIGURE TTC-4.0)
  - TYPICAL TRAFFIC CONTROL - SHOULDER OPERATION WITH MINOR ENCROACHMENT (FIGURE TTC-5.0)
  - TYPICAL TRAFFIC CONTROL - MOVING/MOBILE OPERATIONS ON MULTI-LANE ROADWAY (FIGURE TTC-13.0)
- THE CONTRACTOR WILL MAKE ARRANGEMENTS TO STORE EQUIPMENT AND MATERIALS.
- A PUBLIC COMMUNICATIONS PLAN IS NOT APPLICABLE TO THIS PROJECT ALTHOUGH PLANNED LANE CLOSURES WILL BE ANNOUNCED TO THE LOCAL MEDIA.



## PAVEMENT MARKING AND SIGNING

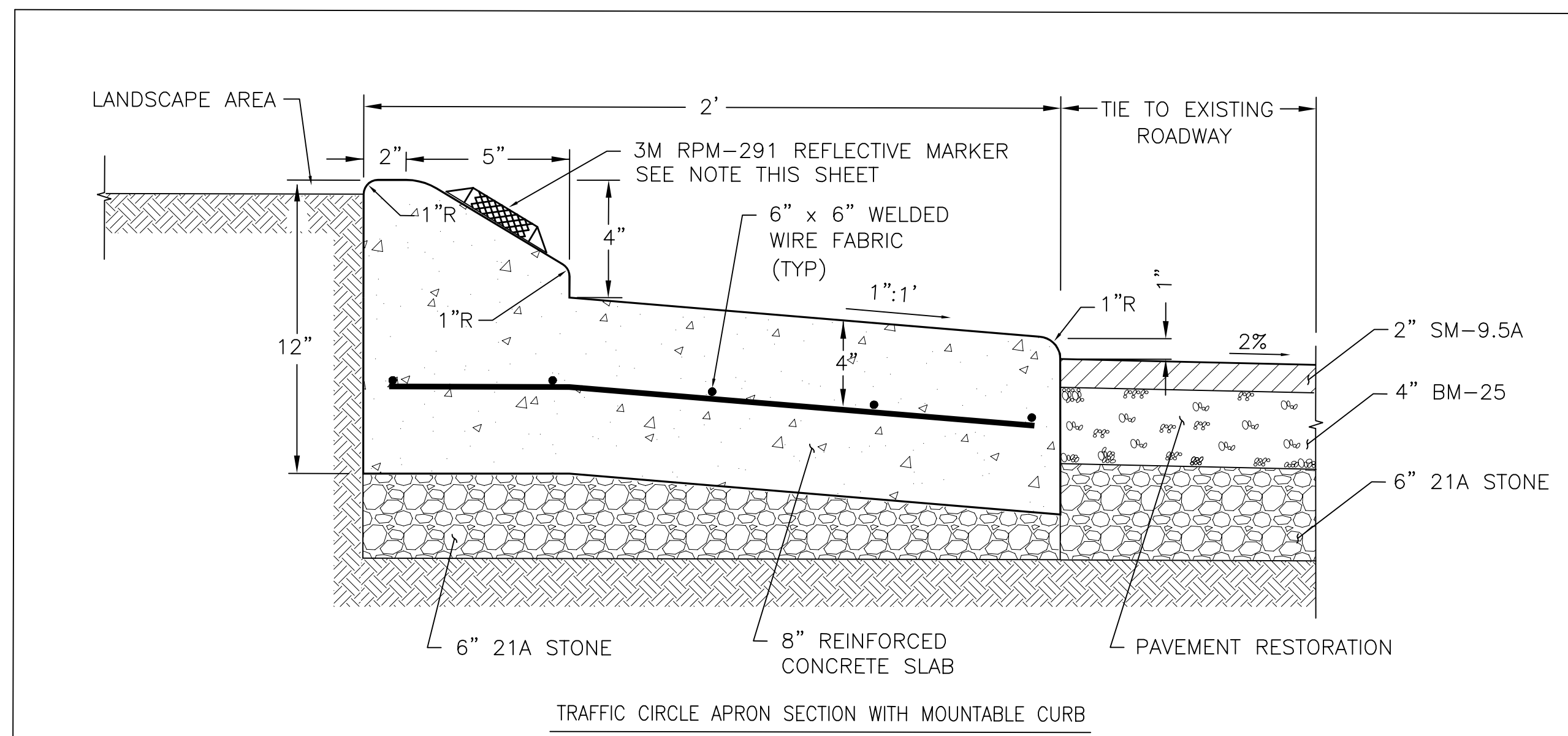
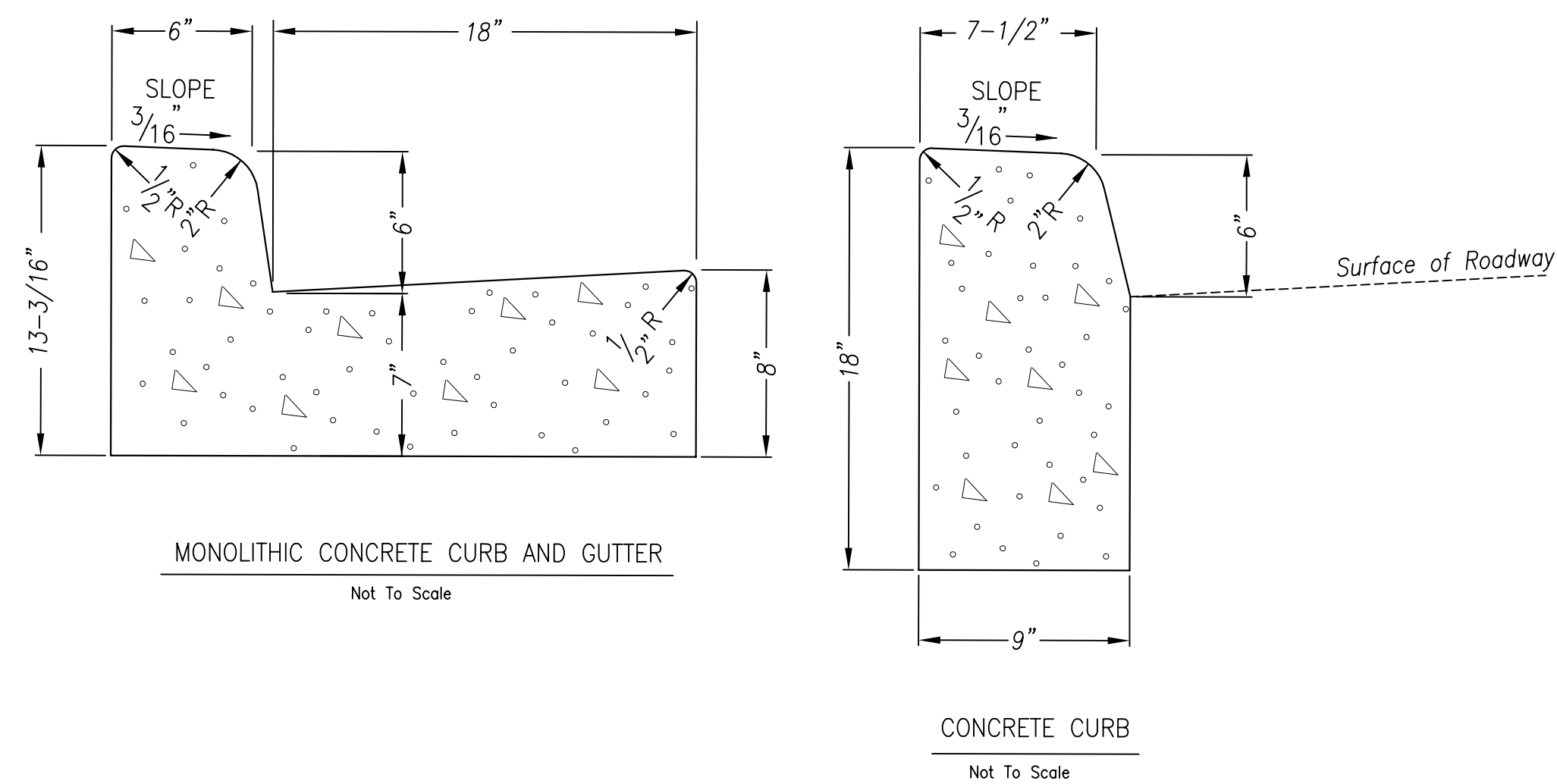
- THE CONTRACTOR SHALL PREPARE THE PAVEMENT SURFACE FOR PROPER ADHESION. ANY SWEEPING OR REMOVAL OF DEBRIS, GRAVEL, DIRT, OR OTHER FOREIGN MATERIALS SHALL BE CONSIDERED AS INCIDENTAL TO THE INSTALLATION.
- THE CONTRACTOR SHALL REMOVE COMPLETELY, ALL PREVIOUS PAVEMENT MARKINGS, WHICH, IN THE OPINION OF THE PROJECT MANAGER, CONFLICT WITH THE NEW PAVEMENT MARKINGS.
- UNLESS OTHERWISE SPECIFIED, THE BASIS OF MEASUREMENT SHALL BE ALONG THE LONGITUDINAL CENTERLINE OF PAVEMENT MARKINGS. MEASUREMENT FOR LEGENDS SHALL BE PER MESSAGE, COMPLETE AND IN PLACE.
- PRIOR TO APPLICATION, THE CONTRACTOR SHALL FIELD CHECK AND LOCATE ALL PAVEMENT MARKINGS TO THE SATISFACTION OF THE PROJECT MANAGER.
- ALL MARKINGS IMPROPERLY APPLIED OR LOCATED SHALL BE REMOVED AND CORRECTLY REAPPLIED, AT THE CONTRACTOR'S EXPENSE.
- THERMOPLASTIC PAVEMENT MARKINGS SHALL NOT BE INSTALLED AT ANYTIME WITHIN A FORTY-EIGHT (48) HOUR PERIOD FOLLOWING A RAINFALL.
- MARKING MATERIAL SHALL BE APPLIED AT THE SPECIFIED DIMENSIONS AND AT A RATE TO RESULT IN A MARKING THICKNESS OF 90 MILS ± 5 MILS (NOT INCLUDING GLASS BEAD TOP DRESSING).
- THE MARKINGS SHALL BE PROVIDED IN SPECIFIED WIDTHS AND SHAPES. PREFORMED WORKS AND SYMBOLS SHALL CONFORM TO THE APPLICABLE SHAPES AND SIZES OUTLINED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" FOR STREETS AND HIGHWAYS, LATEST EDITION.
- THE CONTRACTOR SHALL ENSURE THAT A 4" DIAMETER PVC SLEEVE IS PLACED IN IMPERVIOUS AREAS SUCH AS CONCRETE SIDEWALKS TO PERMIT THE INSTALLATION OF GROUND-MOUNTED SIGNS AT THESE LOCATIONS.
- UNLESS OTHERWISE SPECIFIED ON THE PLANS OR IN CONTRACT DOCUMENTS, ALL PAVEMENT MARKINGS AND LEGENDS IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH VDOT SPECIFICATIONS.
- SIGNS SHALL BE ERECTED ON POSTS WHERE DESIGNATED IN ACCORDANCE WITH THE PAVEMENT MARKING AND SIGNING PLANS. THEY SHALL CONFORM TO THE CURRENT VDOT SPECIFICATIONS AND STANDARDS. EXISTING SIGNS NOT NEEDED SHALL BE REMOVED AND TURNED OVER TO THE DEPARTMENT OF PUBLIC WORKS DESIGNATED LOCATION.
- STOP BAR, SOLID WHITE LINES BEING 2' WIDE, SHALL COMPLETELY TRAVERSE ALL TRAFFIC LANES.
- SOLID YELLOW LINES ARE TO BE USED ADJACENT TO MEDIANS WHICH SEPARATE OPPOSING DIRECTIONS OF VEHICULAR TRAFFIC FLOW. THESE SHALL BE PLACED AT THE BASE OF THE MEDIAN CURB OR AS CLOSE TO IT AS POSSIBLE. EDGE LINES ARE NOT TO BE USED ADJACENT TO CURB ON THE OUTSIDE LANES.
- CENTERLINES ON UNDIVIDED ROADWAYS SHALL BE SOLID DOUBLE YELLOW LINES, 4" WIDE, SEPARATED BY A 4" SPACE.



SUPERVISED BY S. DUNN  
 DESIGNED BY T. RUFF  
 CADD OPERATOR T. RUFF  
 REVISED BY

PLAN NO.	DATE	BY	CITY OF RICHMOND GIS DATA

 YOUR VISION ACHIEVED THROUGH OURS.	DESIGN: T. RUFF	CITY OF RICHMOND RESIDENTIAL TRAFFIC CALMING IMPROVEMENTS  CONSTRUCTION NOTES		
	CHECKED: S. DUNN			
	APPROVED:			
		DATE JAN 31, 2014	SCALE N/A	DRAWING NO. 0-28351
AS BUILT NO	PLAN NO.	PROJECT 040-290-8910-8973-8976	FILE NO.	SHEET NO. 02



NOTE:  
3M SERIES 290 SHALL BE PLACED UPON APRON CURB FACE CIRCUMFERENCE, 14 EQUAL SPACES = 44'

SIGNS LEGEND		
NUMBER	MUTCD CODE	DIMENSION
(A)	OM1-3	18" x 18"

RAISED PAVEMENT MARKERS		
POINT	QUANTITY AND SPACING	
(1)	16	3M SERIES 290 RAISED MARKERS

DEPARTMENTAL STANDARDS

**TYPICAL SECTION OF CONCRETE CURB AND MONOLITHIC CONCRETE CURB AND GUTTER**

N-14000

DEPARTMENTAL STANDARDS

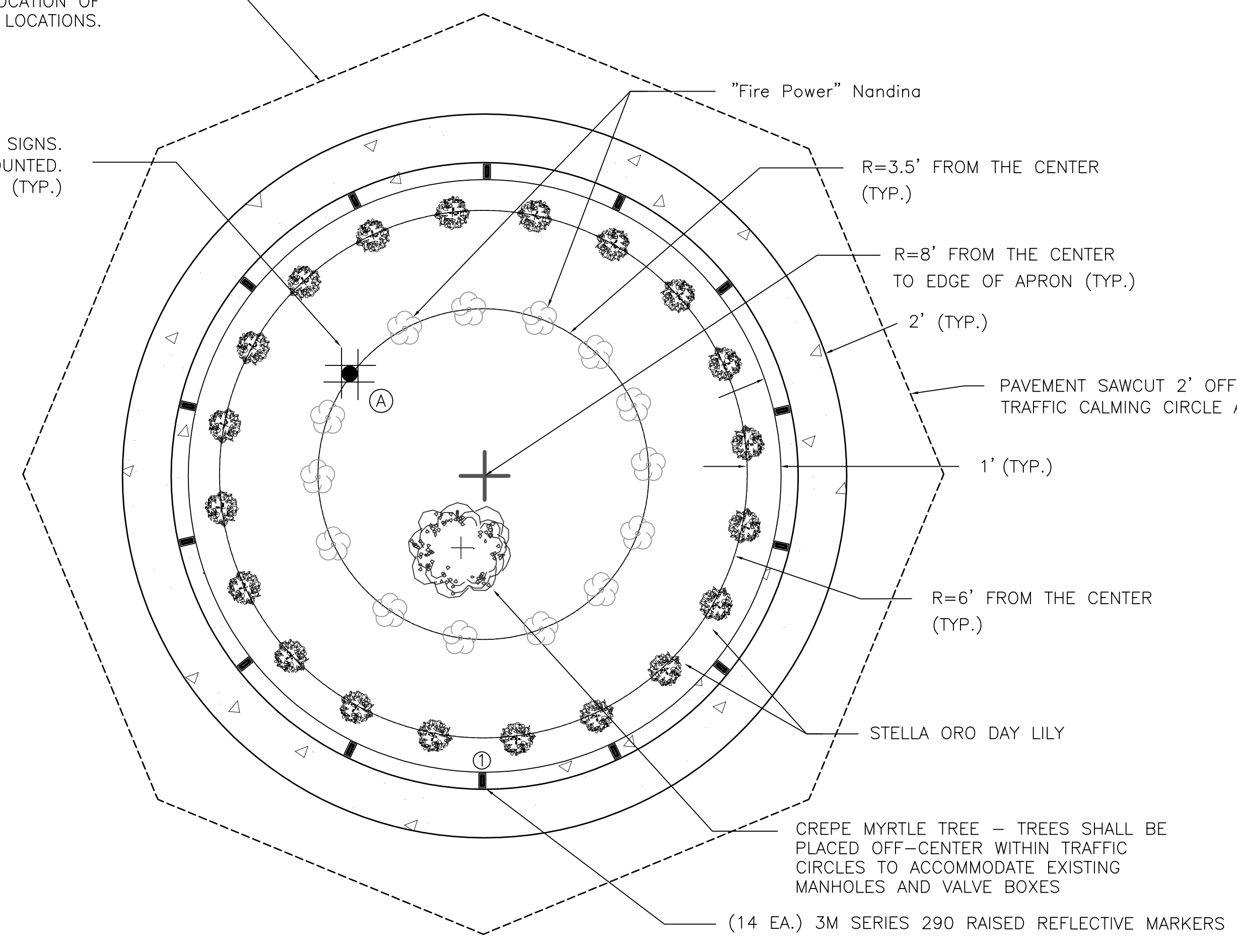
**TYPICAL SECTION OF TRAFFIC CIRCLE APRON WITH MOUNTABLE CURB**

SUPERVISED BY S. DUNN  
 DESIGNED BY T. RUFF  
 CADD OPERATOR T. RUFF  
 REVISED BY

PLAN NO.	DATE	BY	CITY OF RICHMOND GIS DATA

DENOTES POTENTIAL AREA AROUND THE TRAFFIC CIRCLE THAT MAY REQUIRE REHABILITATION FOR PAVERS. SEE PLAN SHEETS FOR EXACT LOCATION OF REHABILITATION LOCATIONS.

(4) OM1-3 OBJECT MARKER SIGNS. SIGNAGE SHALL BE "U" POST-MOUNTED. SEE SIGN LEGEND SHEET 2B. (TYP.)

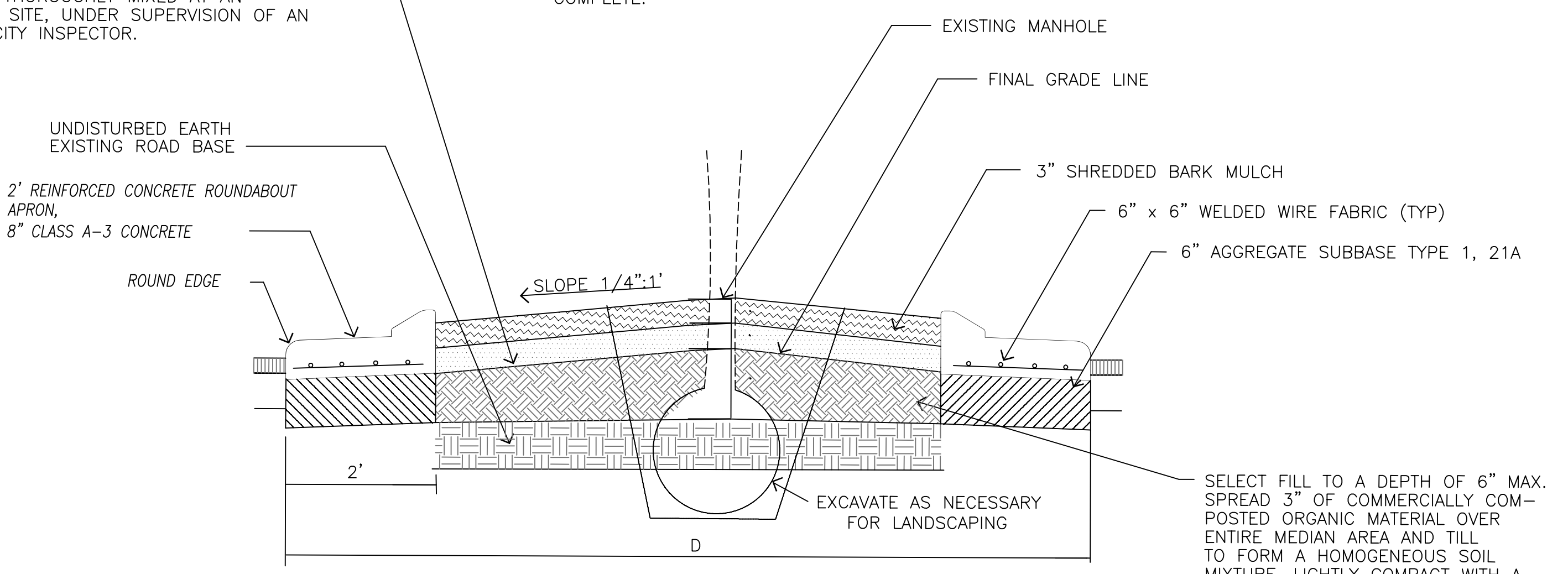


TRAFFIC CALMING CIRCLE LANDSCAPE PLAN (R=8')  
NOT TO SCALE

REACH FINAL GRADE BY APPLICATION OF 3" OF AMENDED BACKFILL MAT'L. PLACED, ROLLED, AND FINAL RAKED. AMENDED BACKFILL MAT'L. SHALL CONSIST OF THREE PARTS TOPSOIL, AND ONE PART COMPOSTED ORGANIC MATERIAL, THOROUGHLY MIXED AT AN APPROVED SITE, UNDER SUPERVISION OF AN OFFICIAL CITY INSPECTOR.

NOTES:

1. MEDIAN WORK SHALL BE APPROVED PRIOR TO ANY PLANTING OPERATIONS WITHIN MEDIAN AREAS.
2. SHREDDED MULCH SHALL NOT BE APPLIED UNTIL PLANTING OPERATION IS COMPLETE.



TRAFFIC CALMING CIRCLE DETAIL - SECTION  
NOT TO SCALE

DESIGN: T. RUFF  
 CHECKED: S. DUNN  
 APPROVED:

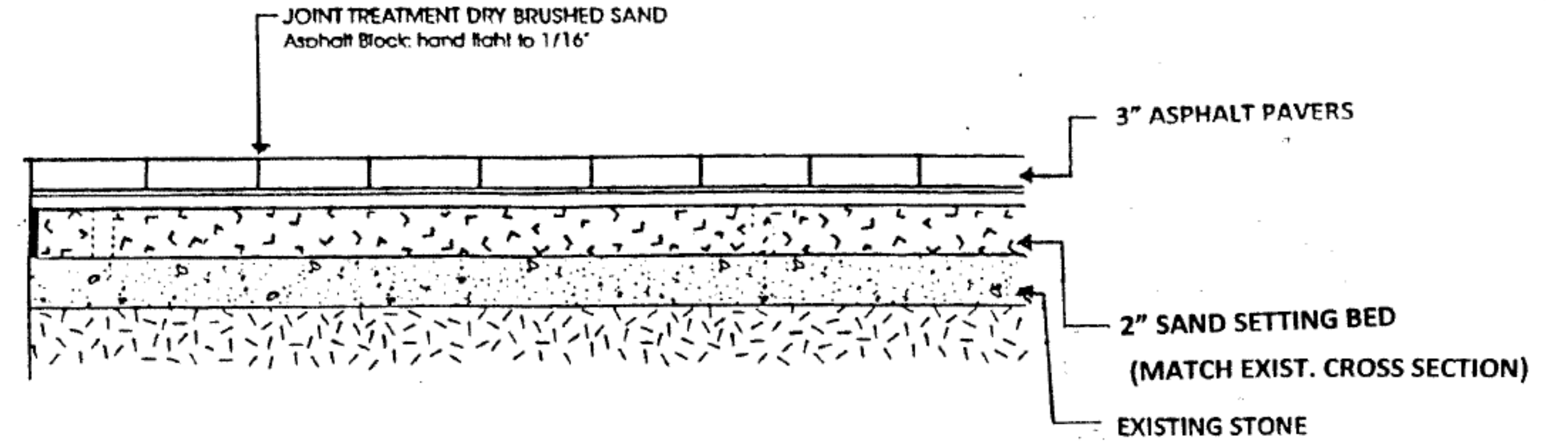
CITY OF RICHMOND  
RESIDENTIAL TRAFFIC CALMING IMPROVEMENTS  
TRAFFIC CIRCLE TYPICAL SECTION DETAILS

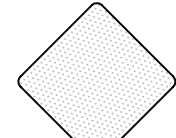
AS BUILT	PLAN NO.	PROJECT	FILE NO.	SHEET NO.
NO		040-290-8910-8973-8976		02A

DATE	SCALE	DRAWING NO.
JAN 31, 2014	N/A	0-28351



## Bituminous Setting Bed Cross Section Detail



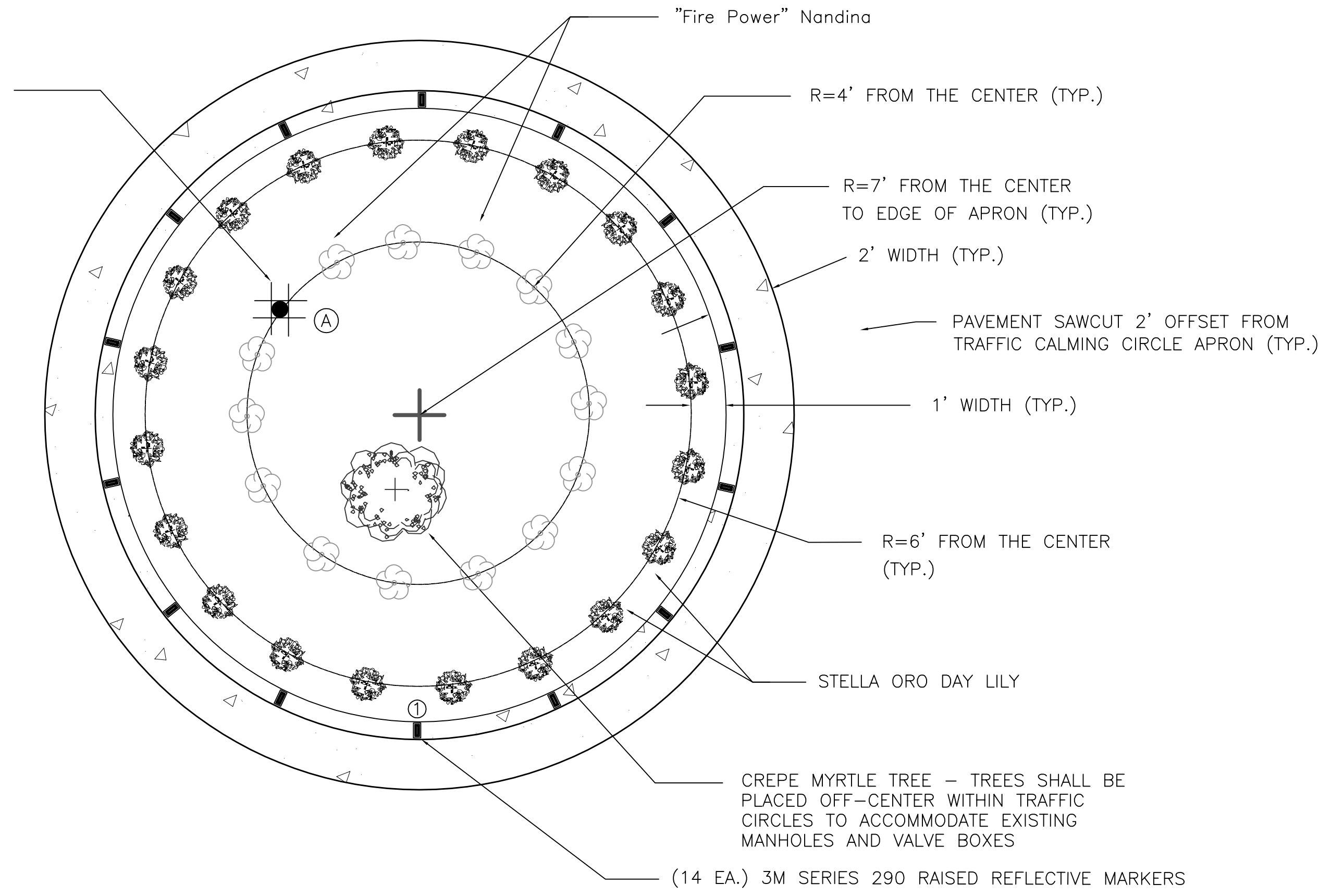
SIGNS LEGEND		
		
(A)		
NUMBER	MUTCD CODE	DIMENSION
(A)	OM1-3	18" x 18"

RAISED PAVEMENT MARKERS		
POINT	QUANTITY AND SPACING	
①	14	3M SERIES 290 RAISED MARKERS

BRICK PAVER REPLACEMENT	
SQ. FT.	LOCATION
750	CHIMBORAZO BOULEVARD AT N STREET

- NOTES:**
1. TRAFFIC CIRCLE SIGN IS NON-STANDARD AND SHALL BE PROVIDED AS SHOWN.
  2. SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSION OF THE MUTCD MANUAL.
  3. THE CONTRACTOR SHALL MARK THE LOCATION OF EACH TRAFFIC CALMING MEASURE IN THE FIELD AND HAVE THE LOCATIONS APPROVED BY THE ENGINEER.
  4. THE CONTRACTOR SHALL CONTACT THE ENGINEER BEFORE LANDSCAPE INSTALLATION.



(4) OM1-3 OBJECT MARKER SIGNS. SIGNAGE SHALL BE "U" POST-MOUNTED. SEE SIGN LEGEND SHEET 2B. (TYP.)






TRAFFIC CALMING CIRCLE LANDSCAPE PLAN (R=7')  
NOT TO SCALE

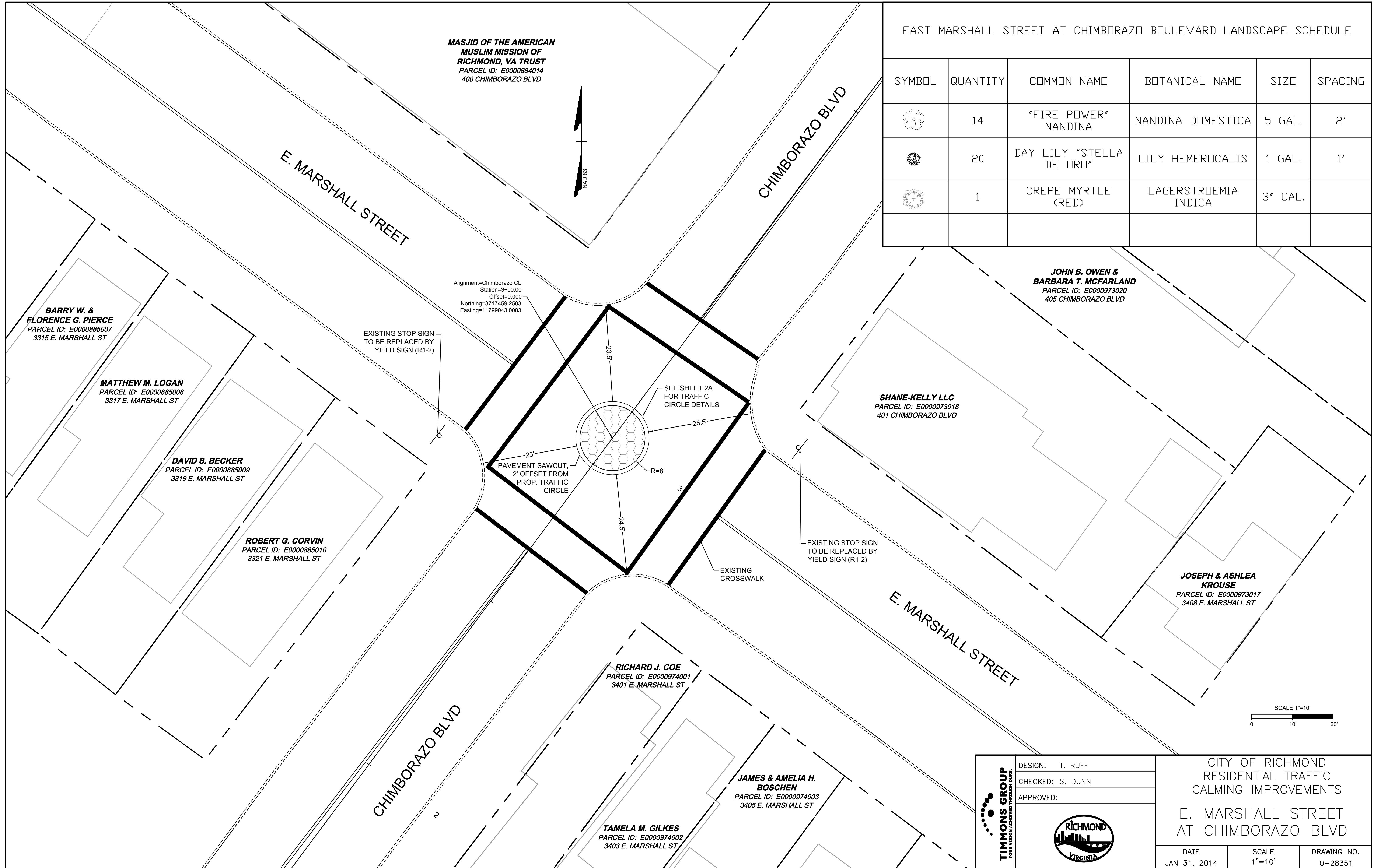
SUPERVISED BY S. DUNN  
 DESIGNED BY T. RUFF  
 CADD OPERATOR T. RUFF  
 REVISED BY

PLAN	DATE	BY	CITY OF RICHMOND GIS DATA
REVISION			
NO. 1			
NO. 2			
NO. 3			
NO. 4			

	DESIGN: T. RUFF	CITY OF RICHMOND RESIDENTIAL TRAFFIC CALMING IMPROVEMENTS <b>TRAFFIC CIRCLE TYPICAL          SECTION DETAILS</b>		
	CHECKED: S. DUNN			
	APPROVED:			
		DATE JAN 31, 2014	SCALE N/A	DRAWING NO. 0-28351
AS BUILT NO	PLAN NO.	PROJECT 040-290-8910-8973-8976	FILE NO.	SHEET NO. 02B

EAST MARSHALL STREET AT CHIMBORAZO BOULEVARD LANDSCAPE SCHEDULE

SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	SPACING
	14	"FIRE POWER" NANDINA	NANDINA DOMESTICA	5 GAL.	2'
	20	DAY LILY "STELLA DE ORO"	LILY HEMEROCALIS	1 GAL.	1'
	1	CREPE MYRTLE (RED)	LAGERSTROEMIA INDICA	3" CAL.	



MASJID OF THE AMERICAN  
MUSLIM MISSION OF  
RICHMOND, VA TRUST  
PARCEL ID: E0000884014  
400 CHIMBORAZO BLVD

JOHN B. OWEN &  
BARBARA T. MCFARLAND  
PARCEL ID: E0000973020  
405 CHIMBORAZO BLVD

SHANE-KELLY LLC  
PARCEL ID: E0000973018  
401 CHIMBORAZO BLVD

JOSEPH & ASHLEA  
KROUSE  
PARCEL ID: E0000973017  
3408 E. MARSHALL ST

RICHARD J. COE  
PARCEL ID: E0000974001  
3401 E. MARSHALL ST

JAMES & AMELIA H.  
BOSCHEN  
PARCEL ID: E0000974003  
3405 E. MARSHALL ST

TAMELA M. GILKES  
PARCEL ID: E0000974002  
3403 E. MARSHALL ST

BARRY W. &  
FLORENCE G. PIERCE  
PARCEL ID: E0000885007  
3315 E. MARSHALL ST

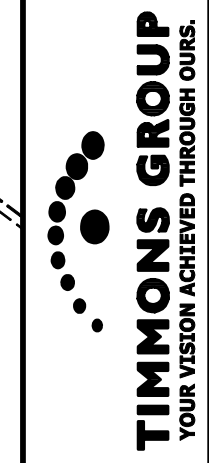

MATTHEW M. LOGAN  
PARCEL ID: E0000885008  
3317 E. MARSHALL ST

DAVID S. BECKER  
PARCEL ID: E0000885009  
3319 E. MARSHALL ST




ROBERT G. CORVIN  
PARCEL ID: E0000885010  
3321 E. MARSHALL ST

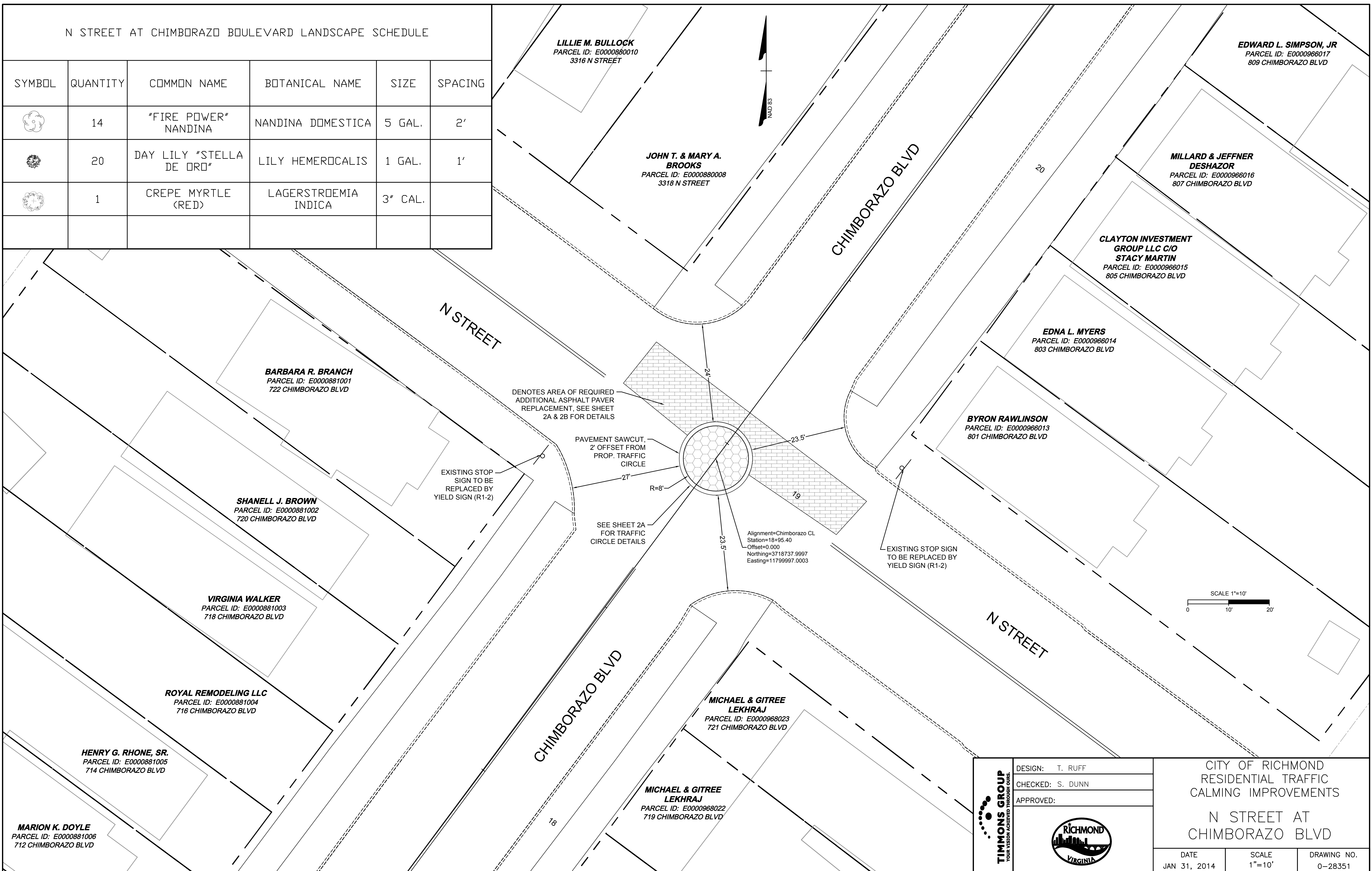
SUPERVISED BY: S. DUNN  
DESIGNED BY: T. RUFF  
CADD OPERATOR: T. RUFF  
REVISED BY:

PLAN NO.	DATE	BY	CITY OF RICHMOND GIS DATA

	DESIGN: T. RUFF	CITY OF RICHMOND RESIDENTIAL TRAFFIC CALMING IMPROVEMENTS  E. MARSHALL STREET AT CHIMBORAZO BLVD		
	CHECKED: S. DUNN			
	APPROVED:			
		DATE: JAN 31, 2014	SCALE: 1"=10'	DRAWING NO.: 0-28351
AS BUILT: NO	PLAN NO.:	PROJECT: 040-290-8910-8973-8976	FILE NO.:	SHEET NO.: 03



N STREET AT CHIMBORAZO BOULEVARD LANDSCAPE SCHEDULE

SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	SPACING
	14	"FIRE POWER" NANDINA	NANDINA DOMESTICA	5 GAL.	2'
	20	DAY LILY "STELLA DE ORD"	LILY HEMEROCALIS	1 GAL.	1'
	1	CREPE MYRTLE (RED)	LAGERSTROEMIA INDICA	3" CAL.	



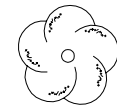


SUPERVISED BY: S. DUNN  
 DESIGNED BY: T. RUFF  
 CADD OPERATOR: T. RUFF  
 REVISED BY:

PLAN NO.	DATE	BY	CITY OF RICHMOND GIS DATA

	DESIGN: T. RUFF	CITY OF RICHMOND RESIDENTIAL TRAFFIC CALMING IMPROVEMENTS  N STREET AT CHIMBORAZO BLVD	
	CHECKED: S. DUNN		
	APPROVED:		
	DATE: JAN 31, 2014	SCALE: 1"=10'	DRAWING NO.: 0-28351
AS BUILT: NO	PLAN NO.:	PROJECT: 040-290-8910-8973-8976	SHEET NO.: 04



M STREET AT 32ND STREET LANDSCAPE SCHEDULE

SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	SPACING
	14	"FIRE POWER" NANDINA	NANDINA DOMESTICA	5 GAL.	2'
	20	DAY LILY "STELLA DE ORD"	LILY HEMEROCALIS	1 GAL.	1'
	1	CREPE MYRTLE (WHITE)	LAGERSTROEMIA INDICA	3" CAL.	

**3TALENTS LLC**  
 PARCEL ID: E0000728001  
 3107 M STREET

**JOYCE SCOTT-CHAMBERS**  
 PARCEL ID: E0000728002  
 620 N. 32ND STREET

**BETTY D. LEWIS**  
 PARCEL ID: E0000728003  
 618 N. 32ND STREET

**JEAN B. & JEWEL E. ELLIS**  
 PARCEL ID: E0000728004  
 616 N. 32ND STREET

**LEN & FRED A. CHAMP AND ARTHUR L. CHAMPION**  
 PARCEL ID: E0000728018  
 700 N. 32ND STREET

**HARRY L., JR. & ROSETTA M. BAUGH**  
 PARCEL ID: E0000807030  
 707 N. 32ND STREET

**ASHANTE SMITH**  
 PARCEL ID: E0000807029  
 705 N. 32ND STREET

**OLLIE S. WYNN**  
 PARCEL ID: E0000807027  
 703 N. 32ND STREET

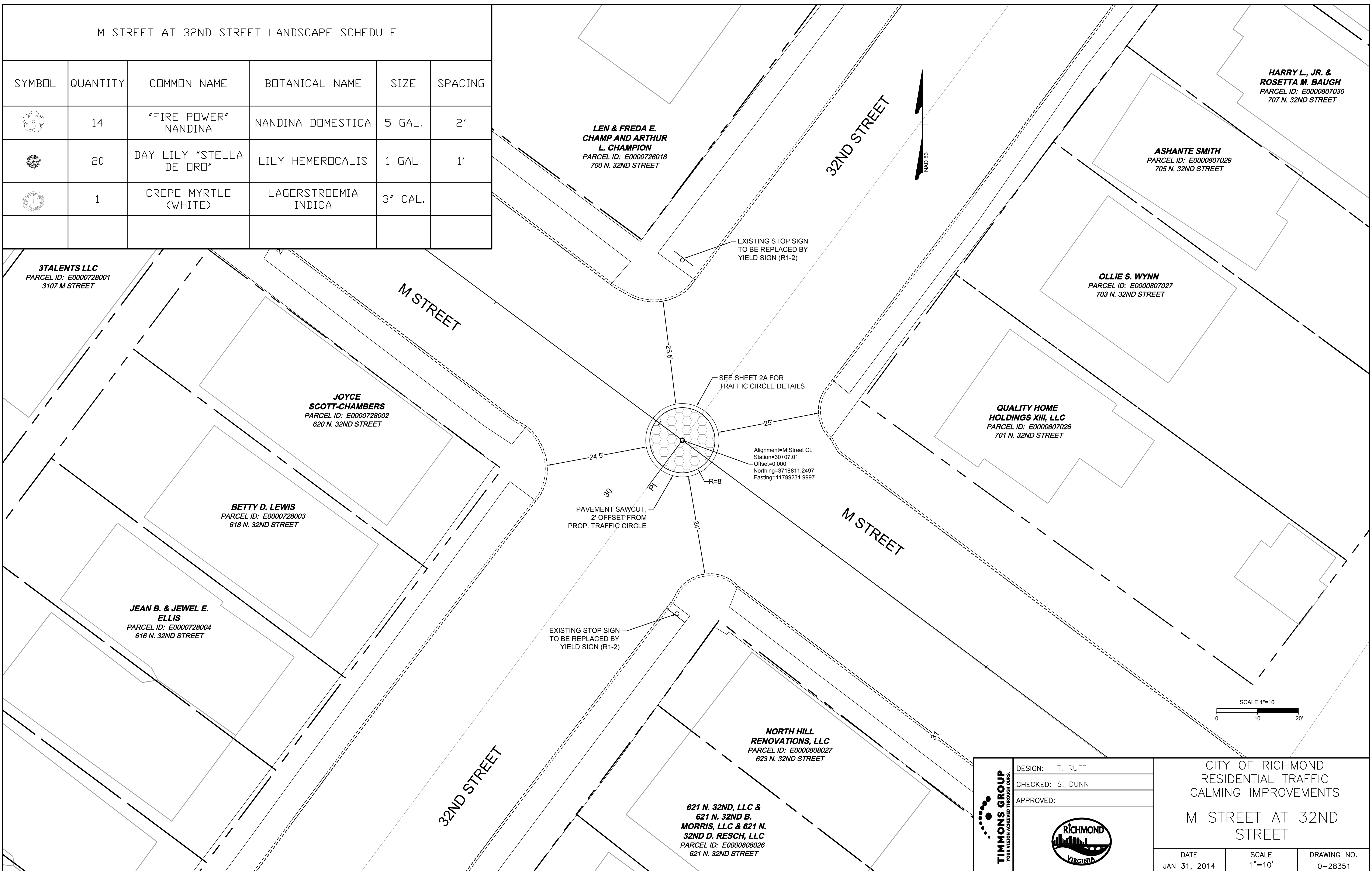
**QUALITY HOME HOLDINGS XIII, LLC**  
 PARCEL ID: E0000807026  
 701 N. 32ND STREET

**NORTH HILL RENOVATIONS, LLC**  
 PARCEL ID: E0000808027  
 623 N. 32ND STREET


**621 N. 32ND, LLC & 621 N. 32ND B. MORRIS, LLC & 621 N. 32ND D. RESCH, LLC**  
 PARCEL ID: E0000808026  
 621 N. 32ND STREET

SUPERVISED BY: S. DUNN  
 DESIGNED BY: T. RUFF  
 CADD OPERATOR: T. RUFF  
 REVISED BY:

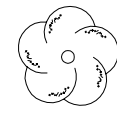


PLAN NO.	DATE	BY	CITY OF RICHMOND GIS DATA



SCALE 1"=10'  
 0 10' 20'

 DESIGN: T. RUFF CHECKED: S. DUNN APPROVED:	CITY OF RICHMOND RESIDENTIAL TRAFFIC CALMING IMPROVEMENTS M STREET AT 32ND STREET		
	DATE	SCALE	DRAWING NO.
	JAN 31, 2014	1"=10'	0-28351
AS BUILT	PLAN NO.	PROJECT	SHEET NO.
NO		040-290-8910-8973-8976	05

M STREET AT 30TH STREET LANDSCAPE SCHEDULE

SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	SPACING
	14	"FIRE POWER" NANDINA	NANDINA DOMESTICA	5 GAL.	2'
	20	DAY LILY "STELLA DE ORD"	LILY HEMEROCALIS	1 GAL.	1'
	1	CREPE MYRTLE (WHITE)	LAGERSTROEMIA INDICA	3" CAL.	

**CITY OF RICHMOND  
PUBLIC UTILITIES**  
PARCEL ID: E0000525002  
714 N. 30TH STREET

**ANDRE MACK &  
MARGARET HILL**  
PARCEL ID: E0000631011  
703 N. 30TH STREET

**DONNELL L. &  
YOLANDA B. WEST**  
PARCEL ID: E0000631010  
701 N. 30TH STREET

**CLAYTON INVESTMENT  
GROUP, LLC  
C/O STACY MARTIN**  
PARCEL ID: E0000573011  
630 N. 30TH STREET

**REBEKAH ROCK**  
PARCEL ID: E0000573012  
626 N. 30TH STREET

**HUBERT LLC**  
PARCEL ID: E0000632001  
623 N. 30TH STREET

**SAMUEL A. CARY**  
PARCEL ID: E0000573013  
622 N. 30TH STREET

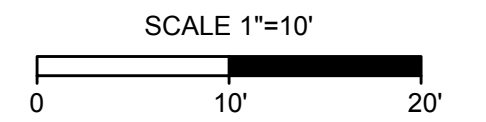
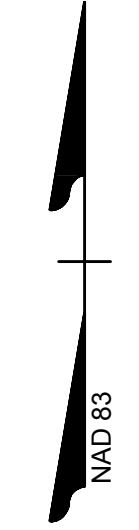
EXISTING STOP SIGN  
TO BE REPLACED BY  
YIELD SIGN (R1-2)

SEE SHEET 2A FOR  
TRAFFIC CIRCLE DETAILS

Alignment=M Street CL  
Station=23+43.00  
Offset=0.000  
Northing=3719207.2501  
Easting=11798698.9999

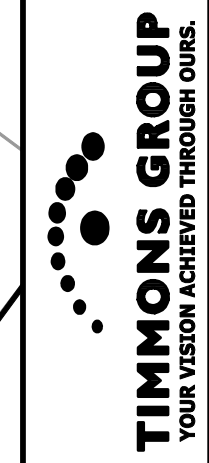

PAVEMENT SAWCUT,  
2' OFFSET FROM  
PROP. TRAFFIC CIRCLE

EXISTING STOP SIGN  
TO BE REPLACED BY  
YIELD SIGN (R1-2)



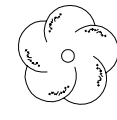


SUPERVISED BY: S. DUNN  
DESIGNED BY: T. RUFF  
CADD OPERATOR: T. RUFF  
REVISED BY:

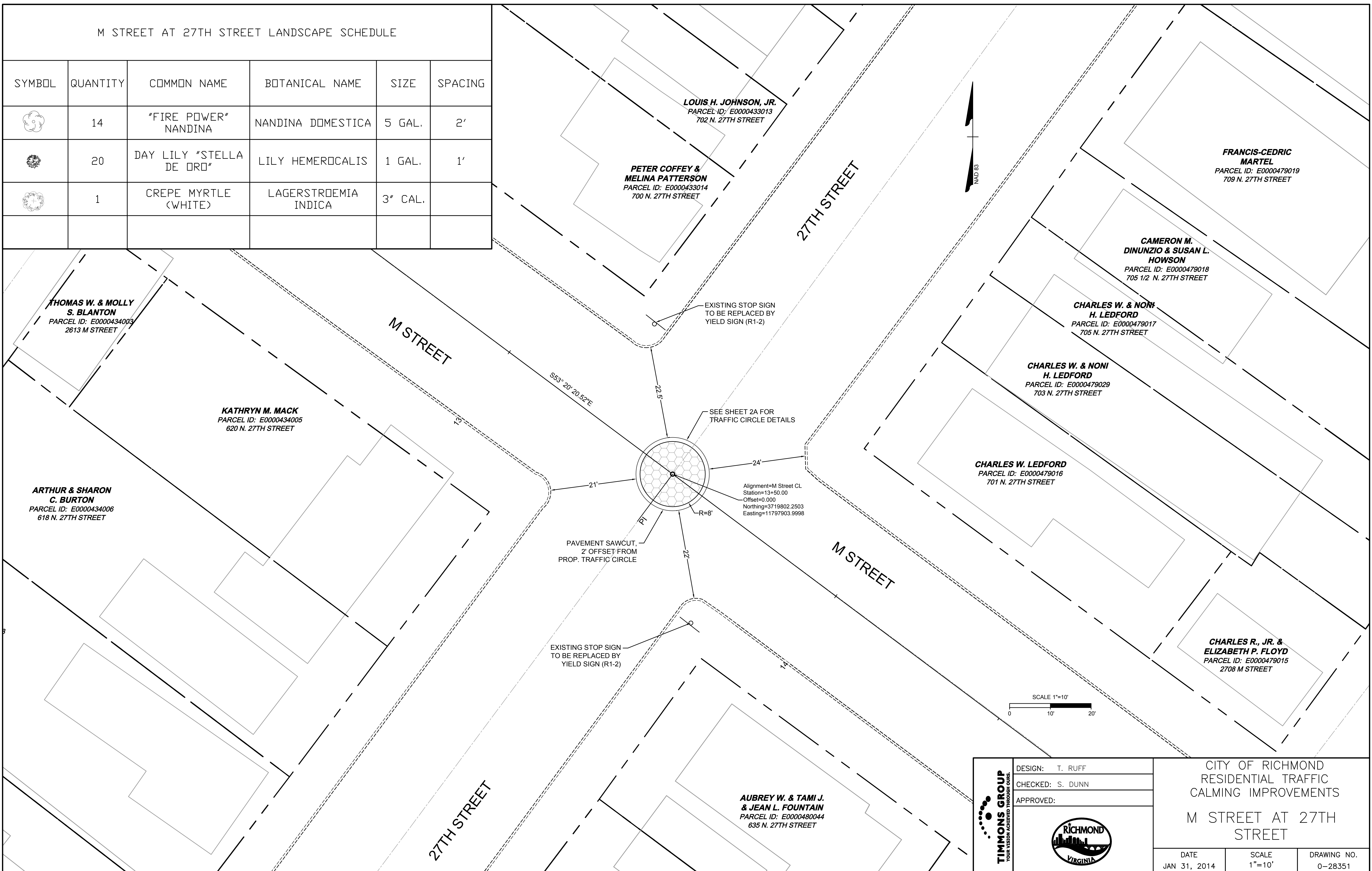
PLAN NO.	DATE	BY

	DESIGN: T. RUFF	CITY OF RICHMOND RESIDENTIAL TRAFFIC CALMING IMPROVEMENTS  M STREET AT 30TH STREET	
	CHECKED: S. DUNN		
	APPROVED:		
	DATE JAN 31, 2014	SCALE 1"=10'	DRAWING NO. 0-28351
AS BUILT NO	PLAN NO.	PROJECT 040-290-8910-8973-8976	SHEET NO. 06





M STREET AT 27TH STREET LANDSCAPE SCHEDULE

SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	SPACING
	14	"FIRE POWER" NANDINA	NANDINA DOMESTICA	5 GAL.	2'
	20	DAY LILY "STELLA DE ORD"	LILY HEMEROCALIS	1 GAL.	1'
	1	CREPE MYRTLE (WHITE)	LAGERSTROEMIA INDICA	3" CAL.	






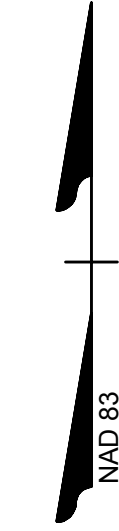
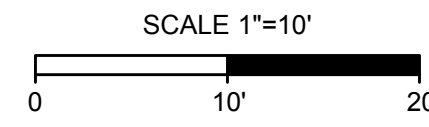
SUPERVISED BY: S. DUNN  
 DESIGNED BY: T. RUFF  
 CADD OPERATOR: T. RUFF  
 REVISED BY:

PLAN NO.	DATE	BY	CITY OF RICHMOND GIS DATA

 <p><b>TIMMONS GROUP</b> FOUR VISIONS ACHIEVED THROUGH ONE.</p>	DESIGN: T. RUFF	CITY OF RICHMOND RESIDENTIAL TRAFFIC CALMING IMPROVEMENTS M STREET AT 27TH STREET	
	CHECKED: S. DUNN		
	APPROVED:		
	DATE: JAN 31, 2014	SCALE: 1"=10'	DRAWING NO.: 0-28351
AS BUILT: NO	PLAN NO.:	PROJECT: 040-290-8910-8973-8976	SHEET NO.: 07

S STREET AT 31ST STREET LANDSCAPE SCHEDULE

SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	SPACING
	14	"FIRE POWER" NANDINA	NANDINA DOMESTICA	5 GAL.	2'
	20	DAY LILY "STELLA DE ORD"	LILY HEMEROCALIS	1 GAL.	1'
	1	CREPE MYRTLE (WHITE)	LAGERSTROEMIA INDICA	3" CAL.	



**LINZ REHAB CENTER  
C/O ATLANTIC  
BEACON REALTY INC.**  
PARCEL ID: E0000625012  
1306 N. 31ST STREET

**DIANE C. MORRIS**  
PARCEL ID: E0000625010  
1310 N. 31ST STREET

**GREG & ANDREW  
KONOPASEK**  
PARCEL ID: E0000720019  
1311 N. 31ST STREET

**JAMES H. RASHEED**  
PARCEL ID: E0000720018  
1309 N. 31ST STREET

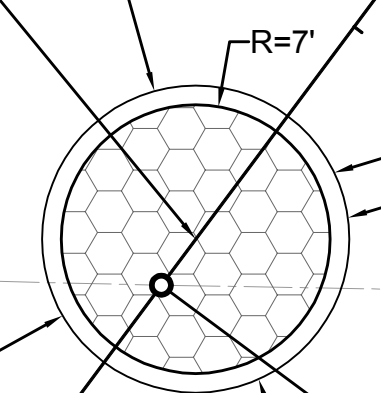
**KEITH L. JOHNSON**  
PARCEL ID: E0000720017  
1307 N. 31ST STREET

**EVA D. GAINES**  
PARCEL ID: E0000720016  
1305 N. 31ST STREET

**LOUISE S. SCOTT**  
PARCEL ID: E0000720015  
1303 N. 31ST STREET

**LEWIS & ELAINE N.  
AVILES**  
PARCEL ID: E0000720014  
1301 N. 31ST STREET

Alignment=31ST STREET CL  
Station=14+36.20  
Offset=0.000  
Northing=3720903.5905  
Easting=11800380.2049



SEE SHEET 2B  
FOR TRAFFIC  
CIRCLE DETAILS

PAVEMENT SAWCUT,  
2' OFFSET FROM  
PROP. TRAFFIC CIRCLE

STOP BAR TO  
BE REMOVED

EXISTING STOP  
SIGN TO BE  
REPLACED BY  
YIELD SIGN (R1-2)

ONE "NO PARKING" SIGN (R8-3)  
AND ONE "RIGHT LANE MUST  
TURN RIGHT" (R3-7R) SIGN TO  
BE REMOVED

ADD DOUBLE  
YELLOW 4" WIDE  
PAVEMENT  
MARKING LINES

ONE "NO PARKING"  
SIGN TO BE  
REMOVED

S STREET

31ST STREET

S STREET

31ST STREET

**RAY N., SR. &  
KARLYN C. SMITH**  
PARCEL ID: E0000626001  
1234 N. 31ST STREET

**RAY N., SR. &  
KARLYN C. SMITH**  
PARCEL ID: E0000626002  
1230 N. 31ST STREET

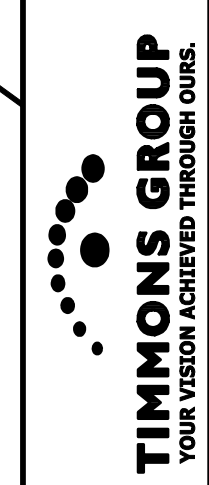

**RAY N., SR. &  
KARLYN C. SMITH**  
PARCEL ID: E0000626004  
1228 N. 31ST STREET

**RICHARD C.  
EDMUNDS, JR.**  
PARCEL ID: E0000626005  
1226 N. 31ST STREET

**HATTIE P. & JAMES T.  
THORNTON**  
PARCEL ID: E0000721035  
1229 N. 31ST STREET

SUPERVISED BY: S. DUNN  
DESIGNED BY: T. RUFF  
CADD OPERATOR: T. RUFF  
REVISED BY:

PLAN NO.	DATE	BY	REVISION

	DESIGN: T. RUFF	CITY OF RICHMOND RESIDENTIAL TRAFFIC CALMING IMPROVEMENTS  S STREET AT 31ST STREET		
	CHECKED: S. DUNN			
	APPROVED:			
		DATE: JAN 31, 2014	SCALE: 1"=10'	DRAWING NO.: 0-28351
AS BUILT: NO	PLAN NO.:	PROJECT: 040-290-8910-8973-8976	FILE NO.:	SHEET NO.: 08