

# THE CITY OF KELLER, TEXAS

## PLANS FOR CONSTRUCTION OF

### GRADING, TREE REMOVAL, AND EROSION CONTROL

#### FOR

# MARSHALL RIDGE

## PHASE 1 SOUTH

MAYOR  
PAT McGRIL

CITY MANAGER  
STEVE POLASEK

DIRECTOR OF PUBLIC WORKS  
MATTHEW KITE, P.E.

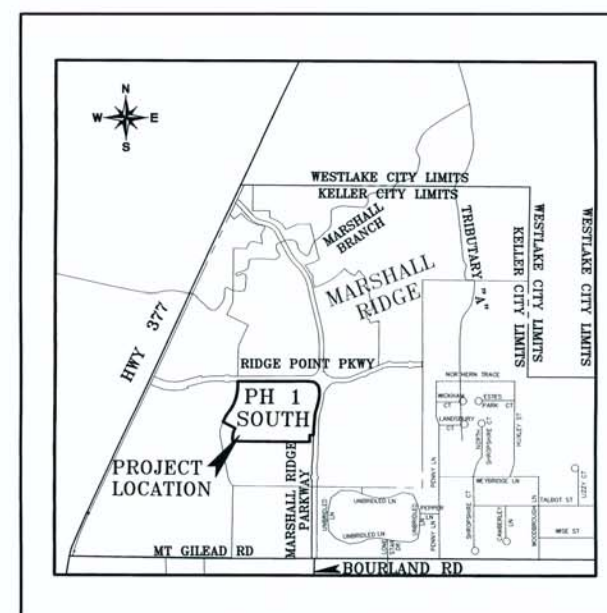
CITY ENGINEER  
KEITH FISHER, P.E.

COUNCIL  
GARY REAVES, MAYOR PRO-TEM  
DEBBIE BRYAN  
TOM CAWTHRA  
BILL DODGE  
JOHN HOFFMAN  
DOUG MILLER

OWNER/DEVELOPER:  
**MERITAGE HOMES**  
909 HIDDEN RIDGE, SUITE 190  
IRVING, TX 75038  
(972)580-6329  
CONTACT: MR. BOBBY SAMUEL, P.E.

PREPARED BY:  
**GOODWIN & MARSHALL INC.**  
CIVIL ENGINEERS ~ PLANNERS ~ SURVEYORS  
2405 Mustang Drive, Grapevine, Texas 76051  
Metro (817) 329-4373  
TBPE REGISTRATION # F-2944 & TBPLS FIRM # 10021700  
CONTACT: JASON WEAVER, P.E.

FRANCHISE UTILITY CONTACT INFORMATION  
TRI-COUNTY ELECTRIC (817) 431-1541  
ATMOS ENERGY (817) 303-2905  
AT&T (817) 338-6517



VICINITY MAP  
N.T.S.

LOCATED IN  
**CITY OF KELLER, TEXAS**

BENCH MARK ELEVATION: 726.38  
City of Keller TBM-22 iron rod with washer approximately  
50 feet west of the centerline of US Hwy 377 and  
approximately 2075 feet south of the intersection of US  
Hwy 377 & Mt. Gilead Road.

#### SHEET INDEX

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1.	FINAL PLAT
2.	FINAL PLAT
3-6.	GRADING PLAN
7-15.	TREE SURVEY
16-19.	EROSION CONTROL & TREE PROTECTION PLAN
20.	EROSION CONTROL & TREE PROTECTION DETAILS
21.	MITIGATION PLAN



**REVIEWED**  
**CITY OF KELLER**  
Released for Construction  
Date \_\_\_\_\_  
City Engineer

MAY, 2014



5/8 in. aluminum capped TX DOT iron fnd.

AIL INVESTMENTS, LP  
VOLUME 13588, PAGE 189, D.R.T.C.T.

POINT OF COMMENCING

LO LAND ASSETS, LP  
D206035783  
D.R.T.C.T.

5/8 in. aluminum capped TX DOT iron fnd.

U.S. HIGHWAY 377  
(RIGHT-OF-WAY VARIES)

ENGINEER ACQUISITION  
PARTNERS, LTD.  
D206035783  
D.R.T.C.T.

ABBREVIATION LEGEND	
U.E.	UTILITY EASEMENT
D.E.	DRAINAGE EASEMENT
B.L.	BUILDING LINE
O.S.	OPEN SPACE
S.R.W.M.E.	SCREENING, RETAINING WALL MAINTENANCE EASEMENT

~ CURVE TABLE ~						
CURVE	DELTA	RADIUS	LENGTH	CHORD BEARING	CHORD	TANGENT
C1	4°15'18"	835.00'	62.01'	N88°02'27"E	62.00'	31.02'
C2	10°00'41"	765.00'	133.67'	S89°04'51"E	133.50'	67.01'
C3	5°45'23"	835.00'	83.89'	S86°37'13"E	83.88'	41.98'
C4	3°52'08"	765.00'	51.65'	S87°53'51"E	51.64'	25.84'
C5	47°24'49"	100.00'	82.75'	S62°15'23"E	80.41'	43.91'
C6	43°41'28"	100.00'	76.26'	S16°42'15"E	74.42'	40.09'
C7	7°55'41"	835.00'	115.54'	S08°25'14"W	115.45'	57.86'
C8	12°12'58"	765.00'	163.11'	S06°16'35"W	162.80'	81.86'
C9	6°22'23"	835.00'	92.88'	S03°21'18"W	92.83'	46.49'
C10	8°46'38"	765.00'	117.19'	S02°09'10"W	117.08'	58.71'
C11	8°46'38"	835.00'	127.91'	N02°09'10"E	127.79'	64.08'
C12	6°22'23"	765.00'	85.09'	N03°21'18"E	85.05'	42.59'
C13	35°04'35"	325.00'	198.96'	N08°49'25"E	195.87'	102.71'
C14	33°46'20"	250.00'	147.36'	N17°03'16"E	145.24'	75.89'
C15	7°34'44"	500.00'	66.14'	N30°09'04"E	66.09'	33.12'
C16	35°49'24"	300.00'	187.57'	N08°27'00"E	184.53'	96.96'
C17	26°11'36"	250.00'	114.29'	S76°44'06"E	113.30'	58.16'
C18	7°36'02"	800.00'	106.12'	N08°35'03"E	106.05'	53.14'
C19	12°12'58"	800.00'	170.87'	N06°18'35"E	170.25'	85.61'
C20	6°22'23"	800.00'	88.99'	N03°21'18"E	88.94'	44.54'
C21	8°46'38"	800.00'	122.55'	N02°09'10"E	122.43'	61.40'
C22	2°24'14"	800.00'	33.57'	N01°02'01"W	33.56'	16.78'
C23	90°00'00"	20.00'	31.42'	S44°49'54"E	28.28'	20.00'
C24	40°40'47"	650.00'	461.50'	S85°30'36"E	451.86'	240.96'
C25	16°01'06"	765.00'	213.87'	N82°09'33"E	213.18'	107.64'



MARSHALL RIDGE ADDITION  
FUTURE PHASE 1 NORTH

LO LAND ASSETS, LP  
D205277090  
D.R.T.C.T.

POINT OF BEGINNING

BLOCK H  
LOT 7  
O.S. & U.E.

RIDGE POINT PARKWAY

BLOCK G  
LOT 27  
O.S. & U.E.

LO LAND ASSETS, LP  
D205277090  
D.R.T.C.T.

LO LAND ASSETS, LP  
D205277090  
D.R.T.C.T.

~ LINE TABLE ~

LINE	BEARING	DISTANCE
L1	S89°49'54"E	37.97'
L2	S85°57'48"E	11.56'
L3	S38°32'59"E	68.09'
L4	N87°01'09"E	70.65'
L5	S06°32'29"W	63.11'
L6	S02°14'08"E	60.20'
L7	S46°02'01"E	21.64'
L8	S01°00'40"E	50.01'
L9	S45°10'06"W	21.21'
L10	N89°49'54"W	70.00'
L11	N46°49'21"W	21.99'
L12	N00°10'06"E	90.00'
L13	N43°57'50"E	20.76'
L14	N02°14'08"W	57.25'
L15	N06°32'29"E	63.11'
L16	N00°10'06"E	123.46'
L17	N26°21'42"E	14.90'
L18	N26°21'42"E	106.62'
L19	N31°06'31"E	58.76'
L20	N33°55'32"E	70.74'
L21	N27°03'49"E	78.62'
L22	N18°52'01"E	78.62'
L23	N10°40'13"E	78.62'
L24	N01°30'17"E	147.14'
L25	S89°49'54"E	14.04'
L26	S26°12'42"W	98.77'
L27	S63°38'18"E	2.36'
L28	N00°10'06"E	168.00'
L29	N44°49'54"W	31.82'
L30	N06°32'29"E	63.11'
L31	N02°14'08"W	81.96'
L32	S89°49'54"E	50.90'
L33	S89°49'54"E	49.66'
L34	S37°30'54"W	15.90'
L35	N36°26'42"W	11.93'
L36	N45°10'06"E	14.14'
L37	N15°53'52"W	43.36'
L38	N46°13'31"W	20.69'
L39	S47°06'32"W	20.48'
L40	S16°20'50"W	43.07'
L41	S44°49'54"E	14.14'
L42	N45°10'06"E	14.14'
L43	S60°17'10"W	17.34'
L44	S22°09'47"E	13.25'
L45	S66°50'14"W	14.46'
L46	N04°05'12"W	12.63'
L47	N74°09'00"E	19.56'
L48	N15°51'00"W	25.00'
L49	N74°09'00"E	191.15'
L50	S89°49'54"E	119.32'
L51	S46°30'19"E	21.86'
L52	S89°49'54"E	50.00'
L53	N45°10'06"E	21.21'

J.J. ROBERTS SURVEY  
ABSTRACT NO. 1305

MARSHALL RIDGE ADDITION  
FUTURE PHASE 2

MATCH LINE  
SEE SHEET 2

GUSTAVOUS GILBERT SURVEY  
ABSTRACT NO. 577

MARSHALL RIDGE ADDITION  
FUTURE PHASE 3

MATCH LINE  
SEE SHEET 2

FINAL PLAT  
OF  
MARSHALL RIDGE, PHASE 1 SOUTH  
LOTS 19-24, BLOCK D, LOTS 1-10, BLOCK F, LOTS 1-27, BLOCK G AND LOTS 1-7, BLOCK H  
BEING 25.166 ACRES  
SITUATED IN THE  
J.J. ROBERTS SURVEY, ABSTRACT No. 1305  
GUSTAVOUS GILBERT SURVEY, ABSTRACT No. 577  
CITY OF KELLER, TARRANT COUNTY, TEXAS  
47 RESIDENTIAL LOTS, 3 NON RESIDENTIAL LOTS  
ZONED: SF-15  
JANUARY 2007

OWNER:  
LO LAND ASSETS, L.P.  
2020 MAIN STREET #1100  
IRVINE, CA 92614  
CONTACT: PAUL MANNING  
PHONE: (949)724-5900  
FAX: (949)724-1919

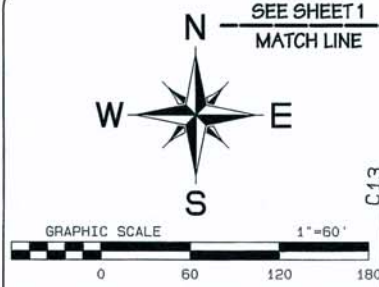
DEVELOPED BY:  
MERITAGE HOMES CORPORATION  
4050 WEST PARK BLVD.  
PLANO, TEXAS 75093  
CONTACT: BRYAN ROBERTSON  
PHONE: (972)543-0707  
FAX: (972)543-0756

BROOKES BAKER SURVEYORS  
930 HICKEY COURT  
GRANBURY, TEXAS 76049  
CONTACT: DON W. HICKEY  
PHONE: (817)329-4373 Fax (817) 329-4453  
FAX: (817)279-9694

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CIVIL ENGINEERS - PLANNERS - SURVEYORS  
2405 Mustang Drive, Grapevine, Texas 76051  
Metro (817) 329-4373 Fax (817) 329-4453  
Contact: Jason Weaver

THIS PLAT FILED IN CABINET A, SLIDE# 12224, DATE 9/28/07





ABBREVIATION LEGEND	
U.E.	UTILITY EASEMENT
D.E.	DRAINAGE EASEMENT
B.L.	BUILDING LINE
O.S.	OPEN SPACE
S.R.W.M.E.	SCREENING, RETAINING WALL MAINTENANCE EASEMENT

LO LAND ASSETS, LP  
D205277090  
D.R.T.C.T.

J.J. ROBERTS SURVEY  
ABSTRACT NO. 1305

MARSHALL RIDGE ADDITION  
FUTURE PHASE 2

~ LINE TABLE ~

LINE	BEARING	DISTANCE
L1	S89°49'54"E	37.97'
L2	S89°57'48"E	11.56'
L3	S38°32'59"E	68.09'
L4	N87°01'09"E	70.65'
L5	S06°32'29"W	63.11'
L6	S02°14'08"E	60.20'
L7	S46°02'01"E	21.64'
L8	S01°00'40"E	50.01'
L9	S45°10'06"W	21.21'
L10	N89°49'54"W	70.00'
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L46	N04°05'12"W	12.69'
L47	N74°09'00"E	19.56'
L48	N15°51'00"W	25.00'
L49	N74°09'00"E	191.15'
L50	S89°49'54"E	119.32'
L51	S46°30'19"E	21.86'
L52	S89°49'54"E	50.00'
L53	N45°10'06"E	21.21'

A-1305  
A-577

P&L ACCOUNT CO.  
VOLUME 6814, PAGE 1926  
D.R.T.C.T.

P & L ACCOUNT CO.  
VOLUME 6953, PAGE 988  
D.R.T.C.T.

HAROLD S. JOHNSON AND WIFE  
ROSE LAI JOHNSON  
VOLUME 11022, PAGE 1806  
D.R.T.C.T.

TRACT I  
HAROLD S. JOHNSON  
VOLUME 11506, PAGE 1653  
D.R.T.C.T.

TRACT II  
HAROLD S. JOHNSON  
VOLUME 11506, PAGE 1653  
D.R.T.C.T.

MOUNT GILEAD RANCH  
CABINET A, SLIDE 6321  
P.R.T.C.T.

LOT 13 LOT 14 LOT 1

BLOCK C

LEXINGTON WAY

~ CURVE TABLE ~

CURVE	DELTA	RADIUS	LENGTH	CHORD	BEARING	CHORD	TANGENT
C1	4°15'18"	835.00'	62.01'	N88°02'27"E	62.00'	31.02'	
C2	10°00'41"	765.00'	133.67'	S89°04'51"E	133.50'	67.01'	
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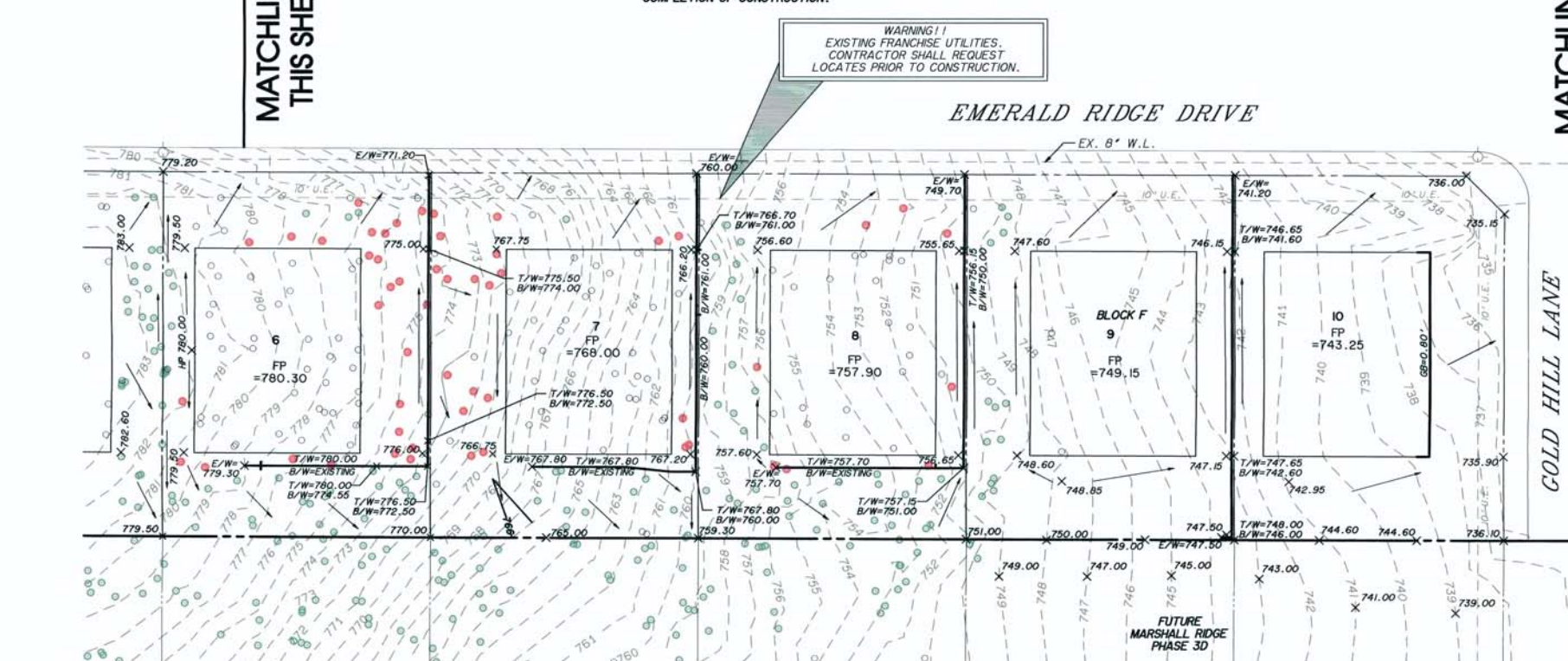
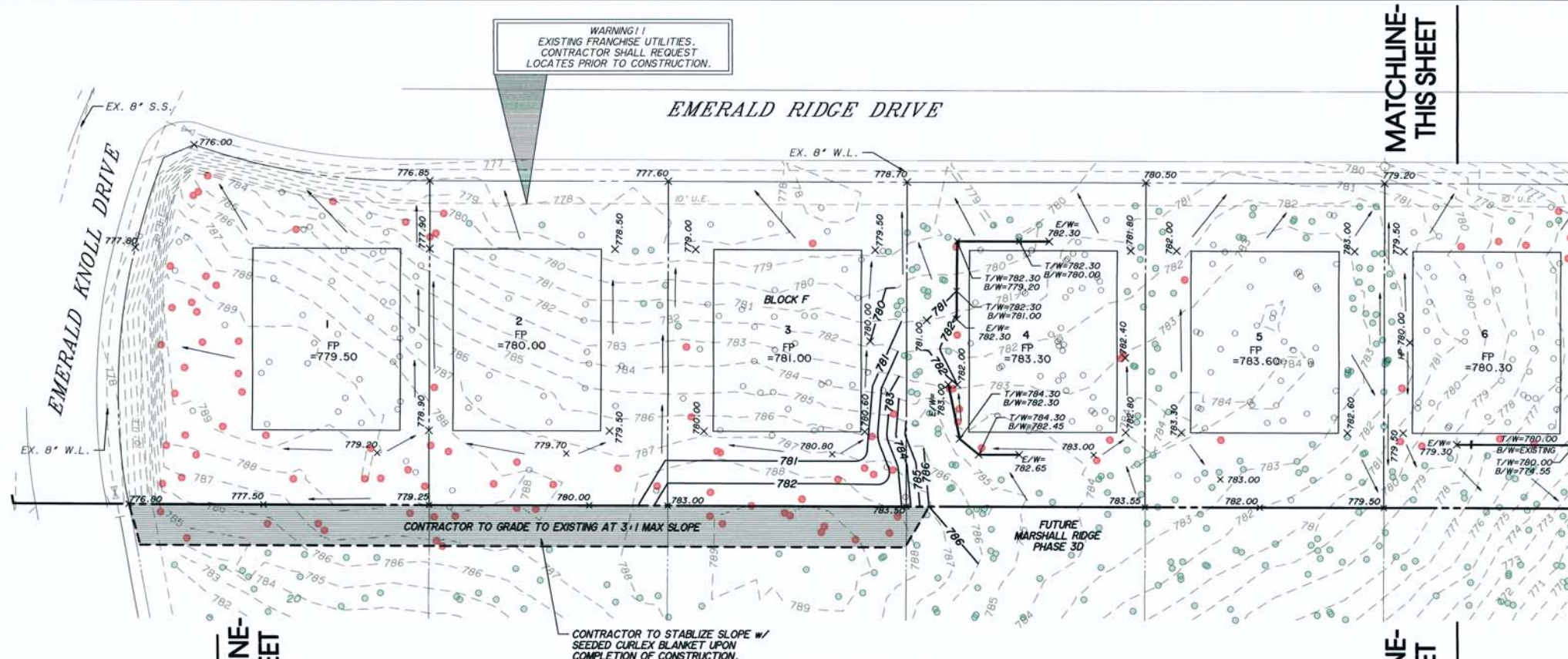
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Contact: Jason Weaver

**FINAL PLAT**  
OF  
**MARSHALL RIDGE, PHASE 1 SOUTH**  
LOTS 19-24, BLOCK D, LOTS 1-10, BLOCK F, LOTS 1-27, BLOCK G AND LOTS 1-7, BLOCK H  
BEING 25.166 ACRES  
SITUATED IN THE  
J.J. ROBERTS SURVEY, ABSTRACT No. 1305  
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47 RESIDENTIAL LOTS, 3 NON RESIDENTIAL LOTS  
ZONED: SF-15  
JANUARY 2007

THIS PLAT FILED IN CABINET A, SLIDE#12225, DATE 9/28/07

PAGE 2 OF 3

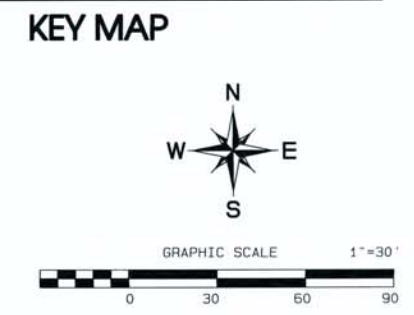
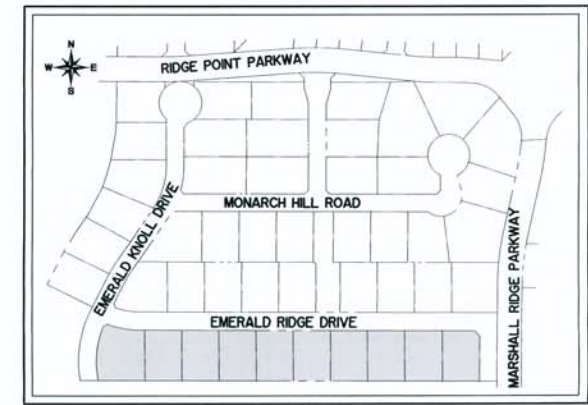




**LEGEND**

- FP = 767.90 80'x65' BUILDING PAD
- X 700.00 SPOT ELEVATION
- PROPOSED RETAINING WALL
- 755— PROPOSED CONTOUR
- - -755- - - EXISTING CONTOUR
- T/W = 700.00 TOP OF WALL ELEVATION
- B/W = 700.00 BOTTOM OF WALL ELEVATION
- E/W = 700.00 END OF WALL ELEVATION
- SPECIMEN TREE TO BE REMOVED (MITIGATION REQUIRED)
- SPECIMEN TREE TO BE PRESERVED
- SPECIMEN TREE TO BE REMOVED (EXEMPT FROM MITIGATION)

- NOTES:**
- 1) GREEN POINTS ARE TREES TO BE PRESERVED.
  - 2) RED POINTS ARE TREES TO BE REMOVED THAT REQUIRE MITIGATION.
  - 3) BLACK POINTS ARE TREES TO BE REMOVED THAT ARE EXEMPT FROM MITIGATION.
  - 4) RETAINING WALLS SHOWN ARE SCHEMATIC ONLY. SEPARATE PERMITS AND DESIGN BY OTHERS REQUIRED FOR CONSTRUCTION.
  - 5) SLEEVES ON 8' CENTERS REQUIRED FOR ALL RETAINING WALLS.
  - 6) DRIVEWAYS TO BE CONSTRUCTED ON HIGH SIDE OF LOT UNLESS NOTED OTHERWISE.
  - 7) FILL AND COMPACTION SHALL BE PER GEOTECHNICAL RECOMMENDATIONS PREPARED FOR MARSHALL RIDGE PHASE 1 SOUTH.
  - 8) BUILDING PADS TO BE CONSTRUCTED TO +/- 0.1' OF DESIGN ELEVATION.



**BENCH MARK ELEVATION: 726.38**  
 City of Keller TBM-22 Iron rod with washer approximately 50 feet west of the centerline of US Hwy 377 and approximately 2075 feet south of the intersection of US Hwy 377 & Mt. Gilead Road.

**CONTRACTOR NOTE**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PRIVATE OR PUBLIC, PRIOR TO EXCAVATING. THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS APPROXIMATE AND BASED ON INFORMATION AND DATA FURNISHED BY THE OWNERS OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURTENANCES OBSERVED IN THE FIELD. THE OWNER AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION OR DATA, AND THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA, FOR LOCATING ALL UNDERGROUND FACILITIES, FOR COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES DURING CONSTRUCTION, FOR THE SAFETY AND PROTECTION THEREOF, AND REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK. THE COST OF ALL OF WHICH WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ANY AFFECTED UTILITY COMPANIES OR AGENCIES AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY ALL ABOVE GROUND AND UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY UTILITIES ENCOUNTERED DURING THE COURSE OF CONSTRUCTION.

**REVIEWED**  
 CITY OF KELLER  
 Released for Construction  
 Date: \_\_\_\_\_  
 City Engineer: \_\_\_\_\_

**5/5/14 - REVISED PER CITY COMMENTS**

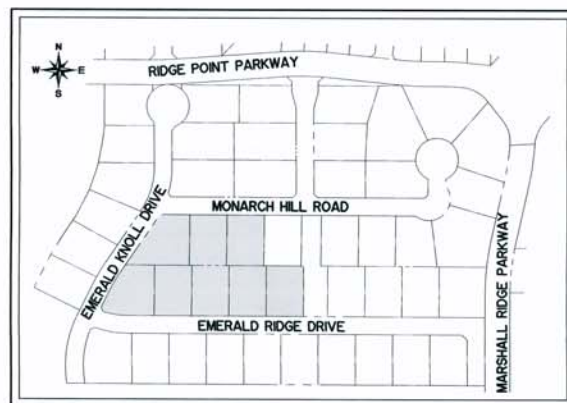
**MARSHALL RIDGE  
 PHASE 1 SOUTH  
 CITY OF KELLER, TEXAS**

**GRADING PLAN**

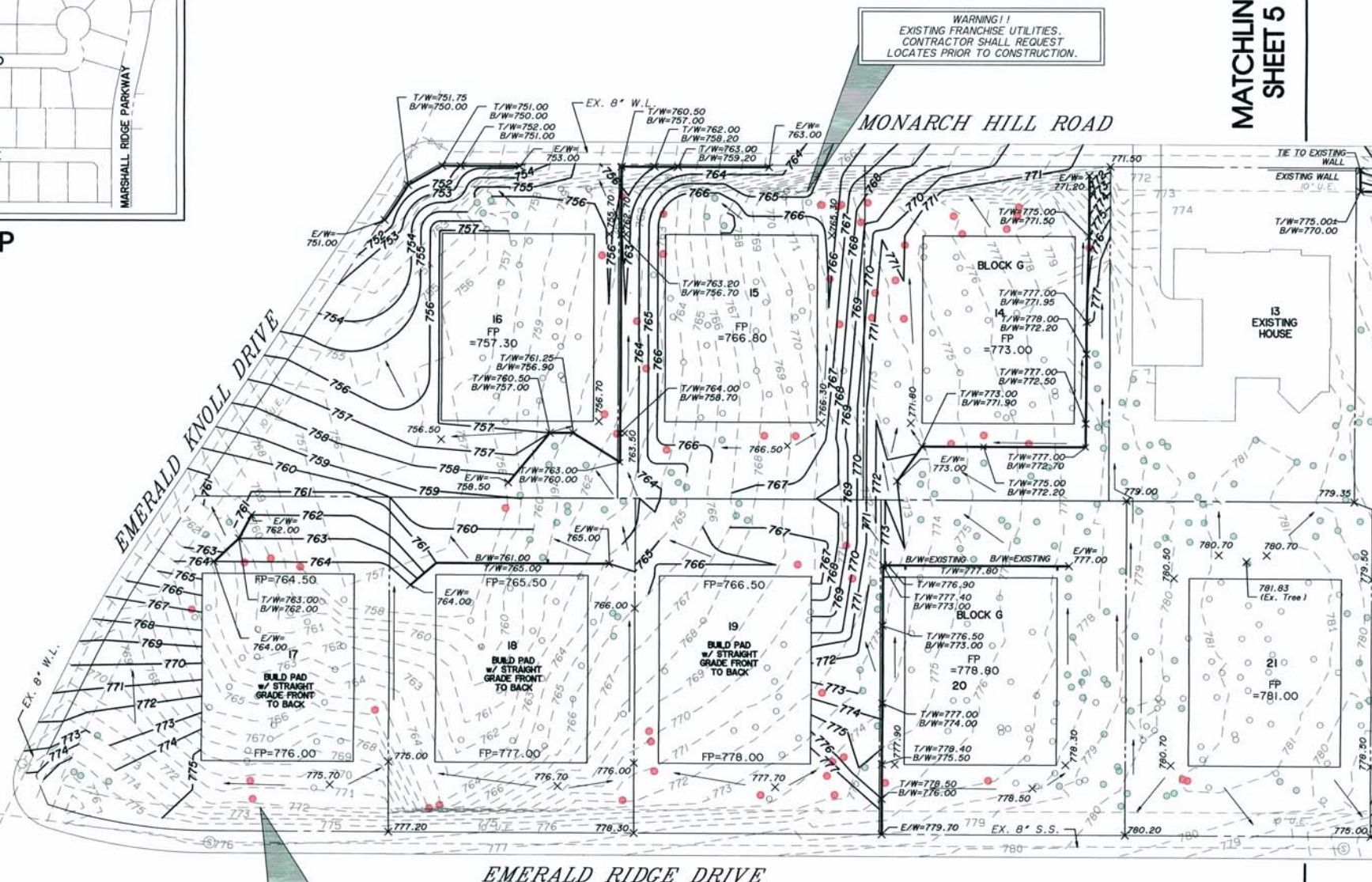
<b>GOODWIN &amp; MARSHALL</b> CIVIL ENGINEERS-PLANNERS-SURVEYORS 2400 MARSHALL DRIVE, GARYVILLE, TEXAS 75841	Job No.: 10185 Date: MAY, 2014 Scale: AS SHOWN	Design: JSW Draft: RE Review: _____
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**SHEET: 3 OF 21**





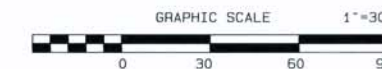
KEY MAP



MATCHLINE-SHEET 5

MATCHLINE-SHEET 5

- NOTES:
- 1) GREEN POINTS ARE TREES TO BE PRESERVED.
  - 2) RED POINTS ARE TREES TO BE REMOVED THAT REQUIRE MITIGATION.
  - 3) BLACK POINTS ARE TREES TO BE REMOVED THAT ARE EXEMPT FROM MITIGATION.
  - 4) RETAINING WALLS SHOWN ARE SCHEMATIC ONLY. SEPARATE PERMITS AND DESIGN BY OTHERS REQUIRED FOR CONSTRUCTION.
  - 5) SLEEVES ON 8' CENTERS REQUIRED FOR ALL RETAINING WALLS.
  - 6) DRIVEWAYS TO BE CONSTRUCTED ON HIGH SIDE OF LOT UNLESS NOTED OTHERWISE.
  - 7) FILL AND COMPACTION SHALL BE PER GEOTECHNICAL RECOMMENDATIONS PREPARED FOR MARSHALL RIDGE PHASE 1 SOUTH.
  - 8) BUILDING PADS TO BE CONSTRUCTED TO +/- 0.1' OF DESIGN ELEVATION.



BENCH MARK ELEVATION: 726.38  
City of Keller TBM-22 iron rod with washer approximately 50 feet west of the centerline of US Hwy 377 and approximately 2075 feet south of the intersection of US Hwy 377 & Mt. Gilead Road.

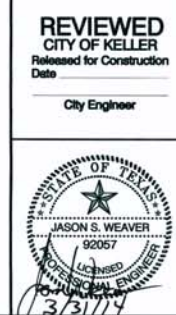
CONTRACTOR NOTE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PRIVATE OR PUBLIC, PRIOR TO EXCAVATING. THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS APPROXIMATE AND BASED ON INFORMATION AND DATA FURNISHED BY THE OWNERS OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURTENANCES OBSERVED IN THE FIELD. THE OWNER AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION OR DATA, AND THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA. FOR LOCATING ALL UNDERGROUND FACILITIES, FOR COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES DURING CONSTRUCTION, FOR THE SAFETY AND PROTECTION THEREOF, AND REPAIRING ANY DAMAGE THEREO RESULTING FROM THE WORK, THE COST OF ALL OF WHICH WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ANY AFFECTED UTILITY COMPANIES OR AGENCIES AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY ALL ABOVE GROUND AND UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY UTILITIES ENCOUNTERED DURING THE COURSE OF CONSTRUCTION.

LEGEND

- |              |  |
|--------------|--|
| FP = 767.90  | 80'x65' BUILDING PAD                                 |
| x 700.00     | SPOT ELEVATION                                       |
| — 755 —      | PROPOSED RETAINING WALL                              |
| — 755 —      | PROPOSED CONTOUR                                     |
| — 755 —      | EXISTING CONTOUR                                     |
| T/W = 700.00 | TOP OF WALL ELEVATION                                |
| B/W = 700.00 | BOTTOM OF WALL ELEVATION                             |
| E/W = 700.00 | END OF WALL ELEVATION                                |
| ●            | SPECIMEN TREE TO BE REMOVED (MITIGATION REQUIRED)    |
| ○            | SPECIMEN TREE TO BE PRESERVED                        |
| ○            | SPECIMEN TREE TO BE REMOVED (EXEMPT FROM MITIGATION) |



5/5/14 - REVISED PER CITY COMMENTS

MARSHALL RIDGE  
PHASE 1 SOUTH  
CITY OF KELLER, TEXAS

GRADING PLAN

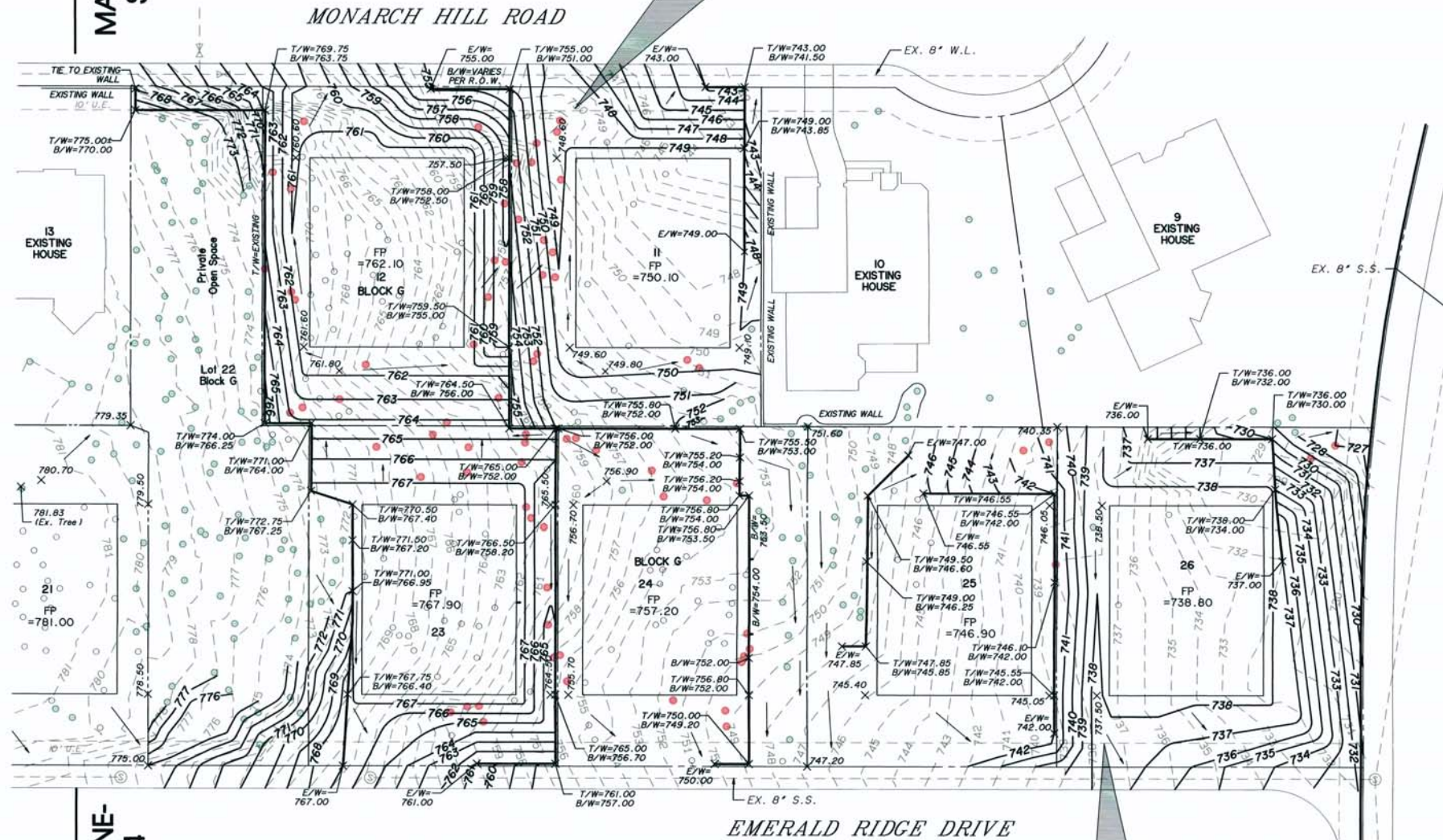
GOODWIN & MARSHALL  
CIVIL ENGINEERS-PLANNERS-SURVEYORS  
3400 MUEHLING DRIVE, GRAPEVINE, TEXAS 76031

Job No.: 10185 Design: JSW  
Date: MAY, 2014 Draft: RE  
Scale: AS SHOWN Review:  
SHEET: 4 OF 21



MATCHLINE-SHEET 4

MATCHLINE-SHEET 4



LEGEND	
FP = 767.90	80'x65' BUILDING PAD
x 700.00	SPOT ELEVATION
— 755 —	PROPOSED RETAINING WALL
---	PROPOSED CONTOUR
---	EXISTING CONTOUR
T/W = 700.00	TOP OF WALL ELEVATION
B/W = 700.00	BOTTOM OF WALL ELEVATION
E/W = 700.00	END OF WALL ELEVATION
○	SPECIMEN TREE TO BE REMOVED (MITIGATION REQUIRED)
●	SPECIMEN TREE TO BE PRESERVED
○	SPECIMEN TREE TO BE REMOVED (EXEMPT FROM MITIGATION)

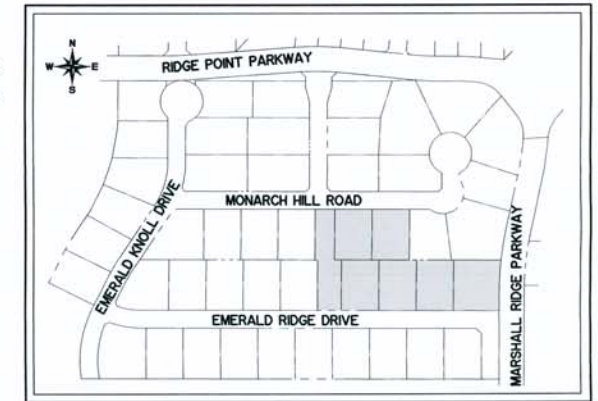
WARNING!!  
EXISTING FRANCHISE UTILITIES.  
CONTRACTOR SHALL REQUEST  
LOCATES PRIOR TO CONSTRUCTION.

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EXISTING FRANCHISE UTILITIES.  
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# CONTRACTOR NOTE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PRIVATE OR PUBLIC, PRIOR TO EXCAVATING. THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS APPROXIMATE AND BASED ON INFORMATION AND DATA FURNISHED BY THE OWNERS OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURTENANCES OBSERVED IN THE FIELD. THE OWNER AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION OR DATA, AND THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA, FOR LOCATING ALL UNDERGROUND FACILITIES, FOR COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES DURING CONSTRUCTION, FOR THE SAFETY AND PROTECTION THEREOF, AND REPAIRING ANY DAMAGE THEREO RESULTING FROM THE WORK, THE COST OF ALL OF WHICH WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ANY AFFECTED UTILITY COMPANIES OR AGENCIES AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

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KEY MAP

## NOTES:

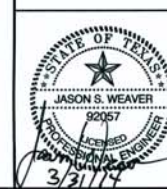
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BENCH MARK ELEVATION: 726.38  
City of Keller TBM-22 Iron rod with washer approximately 50 feet west of the centerline of US Hwy 377 and approximately 2075 feet south of the intersection of US Hwy 377 & Mt. Gilead Road.

5/5/14 - REVISED PER CITY COMMENTS

REVIEWED  
CITY OF KELLER  
Released for Construction  
Date  
City Engineer



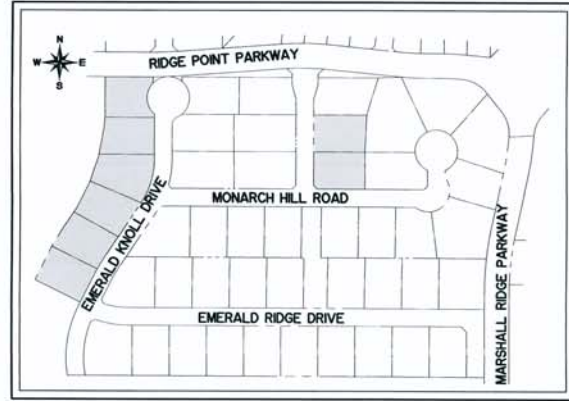
MARSHALL RIDGE  
PHASE 1 SOUTH  
CITY OF KELLER, TEXAS

GRADING PLAN

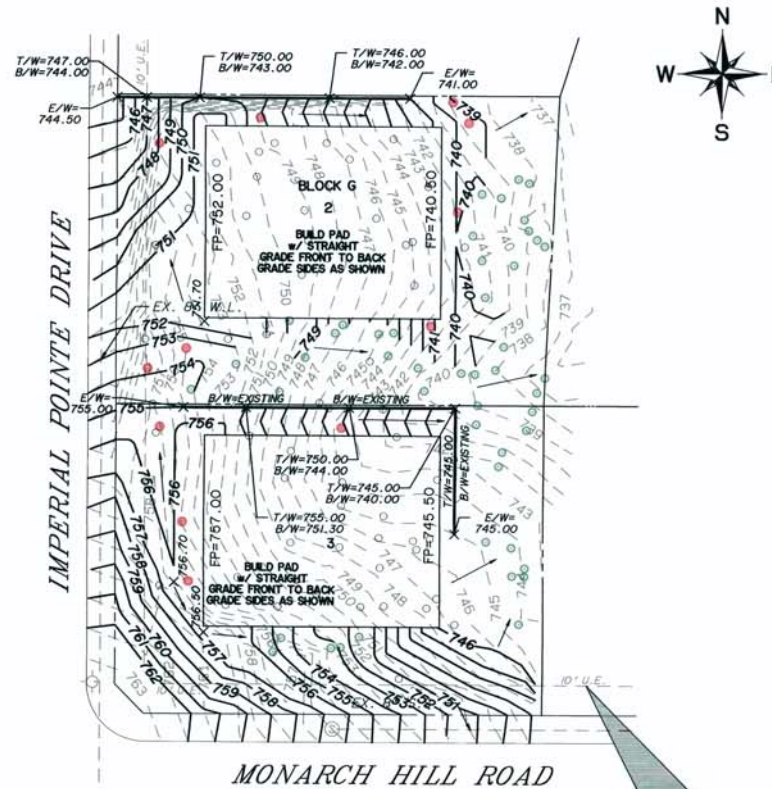
GOODWIN & MARSHALL  
CIVIL ENGINEERS-PLANNERS-SURVEYORS  
2000 N. HARRIS DRIVE, GRAPVINE, TEXAS 75041

Job No.: 10185 Design: JSW  
Date: MAY, 2014 Draft: RE  
Scale: AS SHOWN Review:  
SHEET: 5 OF 21





KEY MAP



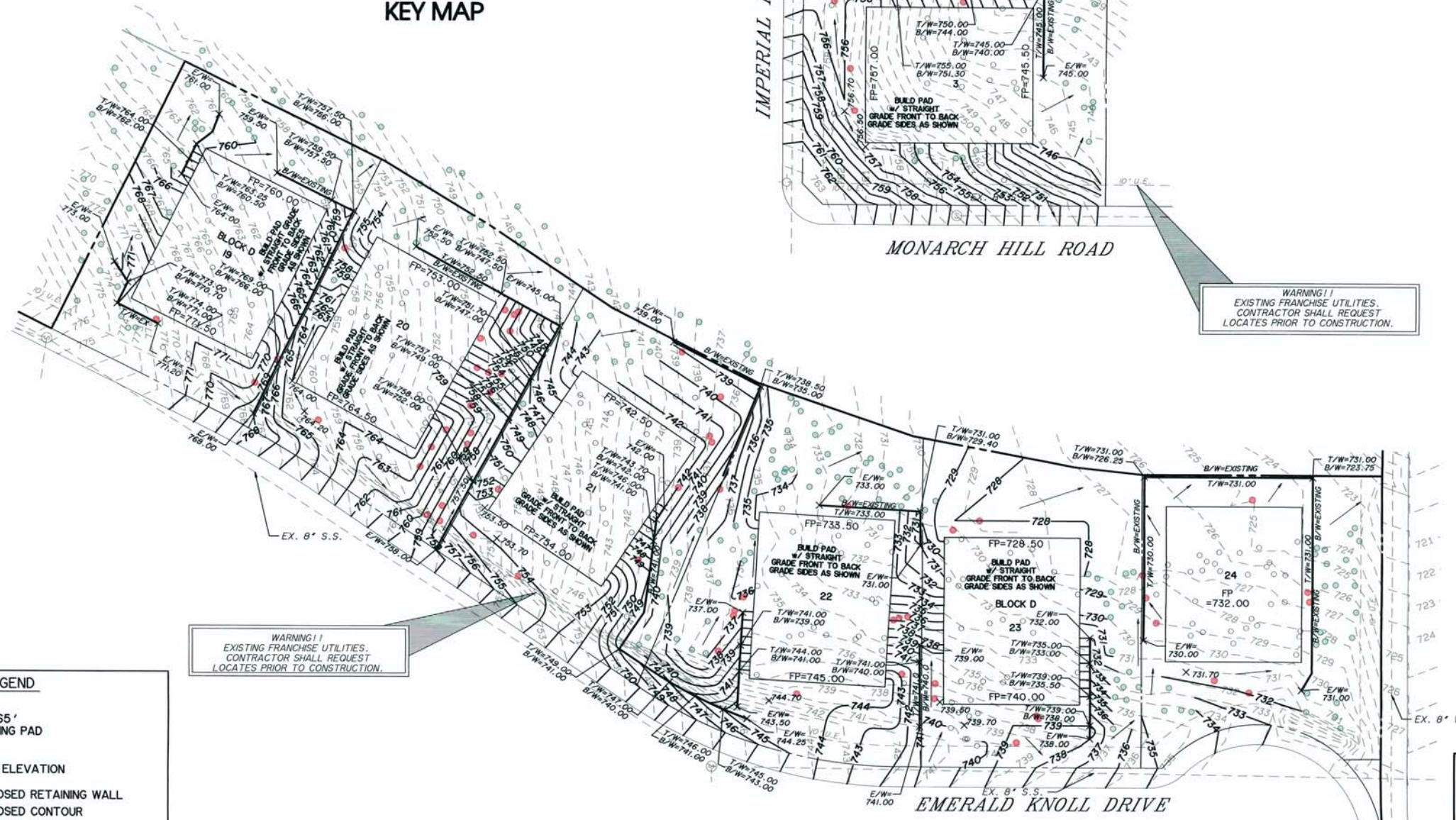
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## LEGEND

- FP = 767.90 80'x65' BUILDING PAD
- X 700.00 SPOT ELEVATION
- PROPOSED RETAINING WALL
- 755 PROPOSED CONTOUR
- 755 EXISTING CONTOUR
- T/W = 700.00 TOP OF WALL ELEVATION
- B/W = 700.00 BOTTOM OF WALL ELEVATION
- E/W = 700.00 END OF WALL ELEVATION
- SPECIMEN TREE TO BE REMOVED (MITIGATION REQUIRED)
- SPECIMEN TREE TO BE PRESERVED
- SPECIMEN TREE TO BE REMOVED (EXEMPT FROM MITIGATION)

## NOTE:

LOTS 19, 20, 21, & 24 TO HAVE LOW SIDE DRIVEWAYS

REVIEWED  
CITY OF KELLER  
Released for Construction  
Date

City Engineer



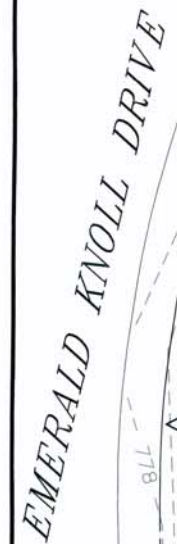
MARSHALL RIDGE  
PHASE 1 SOUTH  
CITY OF KELLER, TEXAS

GRADING PLAN

GOODWIN & MARSHALL  
CIVIL ENGINEERS-PLANNERS-SURVEYORS  
3408 MARSHALL DRIVE, DALLAS, TEXAS 75244

Job No.: 10185 Design: JSW  
Date: MAY, 2014 Draft: RE  
Scale: AS SHOWN Review:  
SHEET: 6 OF 21



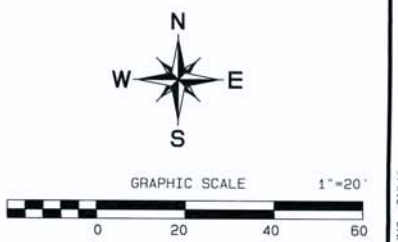
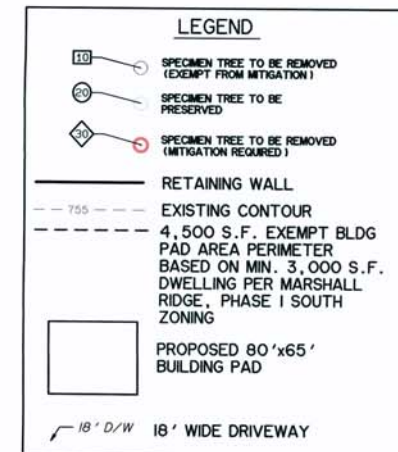
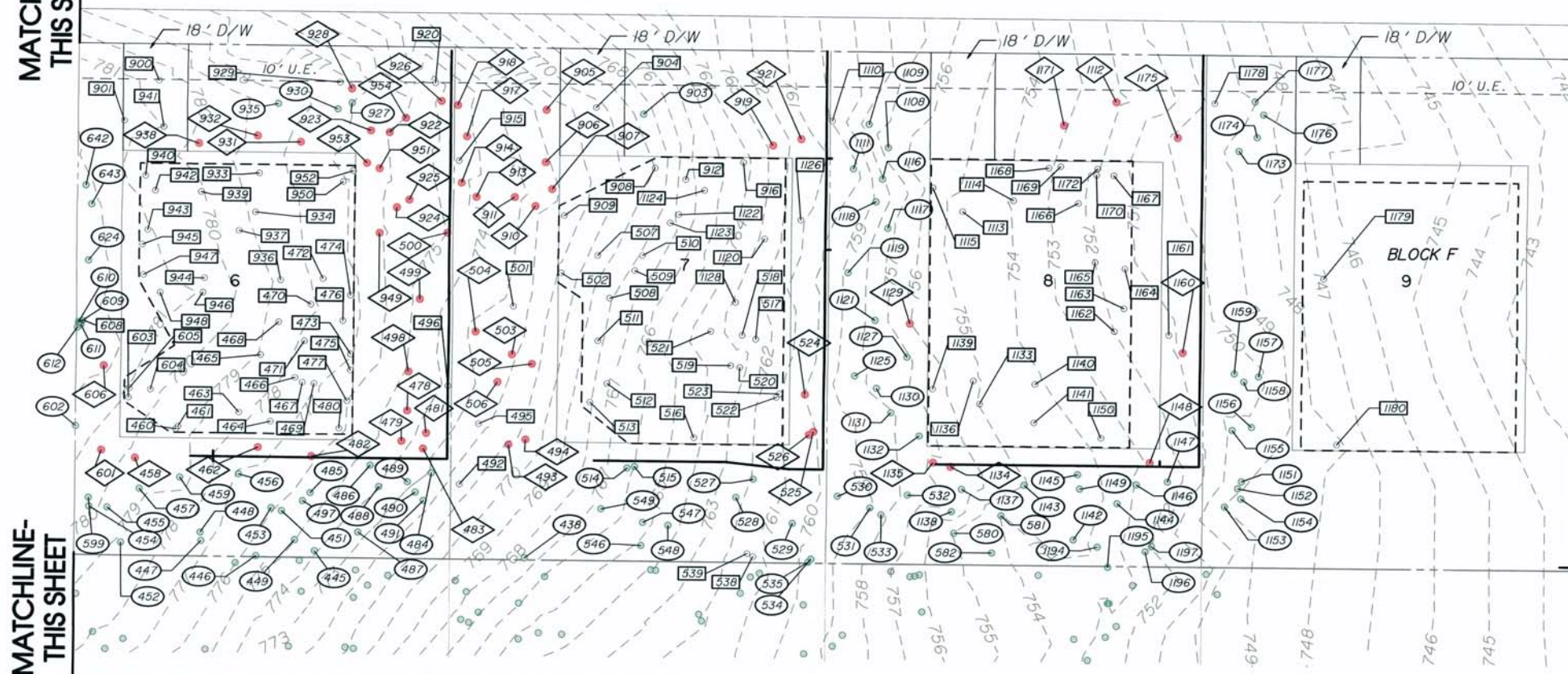


**MATCHLINE-  
THIS SHEET**



## KEY MAP

**MATCHLINE-  
THIS SHEET**



**BENCH MARK** *ELEVATION: 726.38*  
y of Keller TBM-22 iron rod with washer approximately  
feet west of the centerline of US Hwy 377 and  
approximately 2075 feet south of the intersection of US  
y 377 & Mt. Gilead Road.

**REVIEWED**  
**CITY OF KELLER**  
Released for Construction  
Date \_\_\_\_\_  
\_\_\_\_\_  
City Engineer

**MARSHALL RIDGE  
PHASE 1 SOUTH  
CITY OF KELLER, TEXAS**

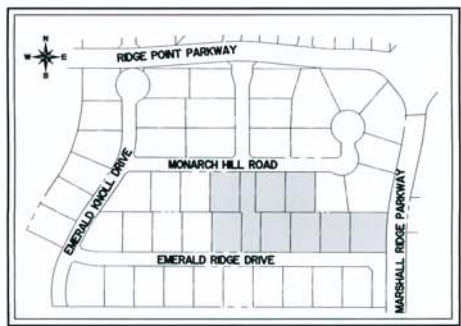
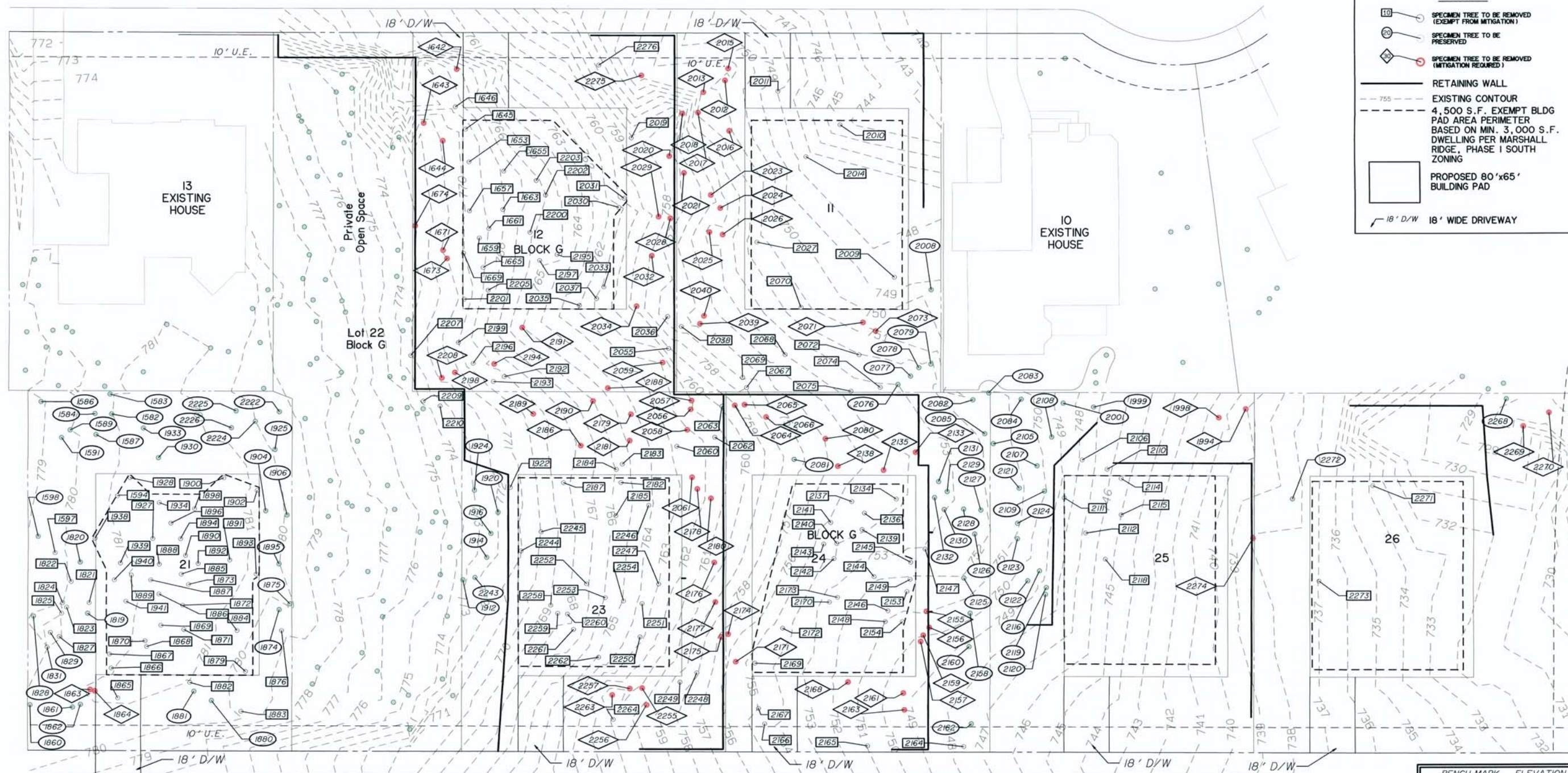
## TREE SURVEY

**GOODWIN &  
MARSHALL INC.**  
CIVIL ENGINEERS-PLANNERS-SURVEYORS

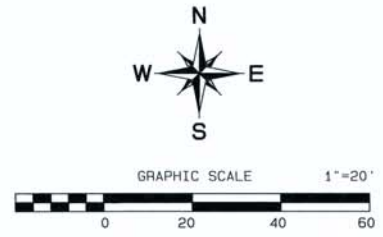
Job No. :	101B5	Design :	JSW
Date :	MAY, 2014	Draft :	RE
Scale :	AS SHOWN	Review :	

SHEET : 7 OF 21





KEY MAP



REVIEWED  
CITY OF KELLER  
Released for Construction  
Date  
City Engineer

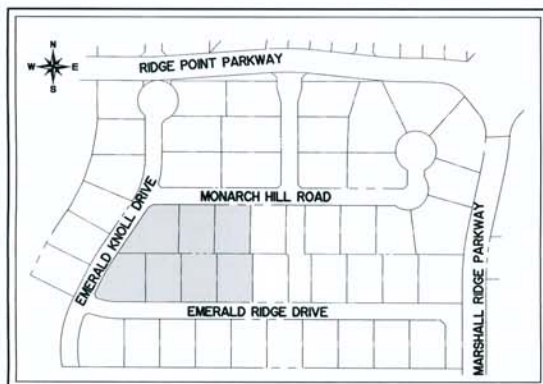


MARSHALL RIDGE  
PHASE 1 SOUTH  
CITY OF KELLER, TEXAS

TREE SURVEY

GOODWIN & MARSHALL	Job No. : 10185	Design : JMW
CIVIL ENGINEERS-PLANNERS-SURVEYORS	Date : MAY, 2014	Draft : RE
3605 MARSHALL DRIVE, GARLAND, TEXAS 75041	Scale : AS SHOWN	Review :
	SHEET : 8 OF 21	



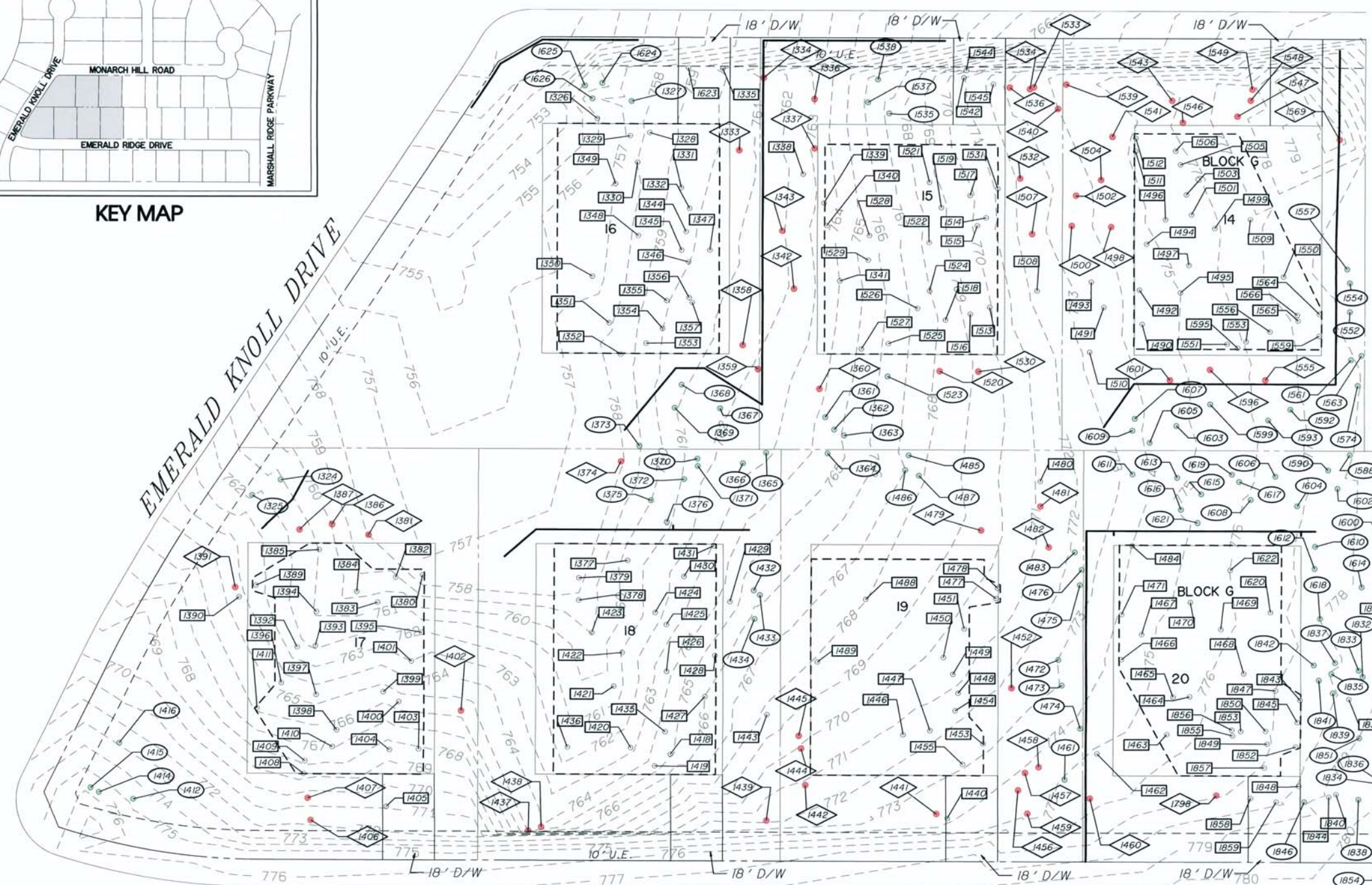


KEY MAP

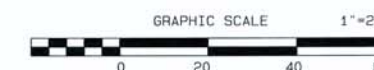
MONARCH HILL ROAD

**LEGEND**

- 10 SPECIMEN TREE TO BE REMOVED (EXEMPT FROM MITIGATION)
- 20 SPECIMEN TREE TO BE PRESERVED
- 30 SPECIMEN TREE TO BE REMOVED (MITIGATION REQUIRED)
- RETAINING WALL
- EXISTING CONTOUR
- 4,500 S.F. EXEMPT BLDG PAD AREA PERIMETER BASED ON MIN. 3,000 S.F. DWELLING PER MARSHALL RIDGE, PHASE 1 SOUTH ZONING
- PROPOSED 80'x65' BUILDING PAD
- 18' D/W 18' WIDE DRIVEWAY



EMERALD RIDGE DRIVE



BENCH MARK ELEVATION: 726.38  
City of Keller TBM-22 iron rod with washer approximately 50 feet west of the centerline of US Hwy 377 and approximately 2075 feet south of the intersection of US Hwy 377 & Mt. Gilead Road.

REVIEWED  
CITY OF KELLER  
Released for Construction  
Date  
City Engineer



MARSHALL RIDGE  
PHASE 1 SOUTH  
CITY OF KELLER, TEXAS

TREE SURVEY

GOODWIN & MARSHALL  
CIVIL ENGINEERS-PLANNERS-SURVEYORS  
3008 MEADOW DRIVE, DALLAS, TEXAS 75243

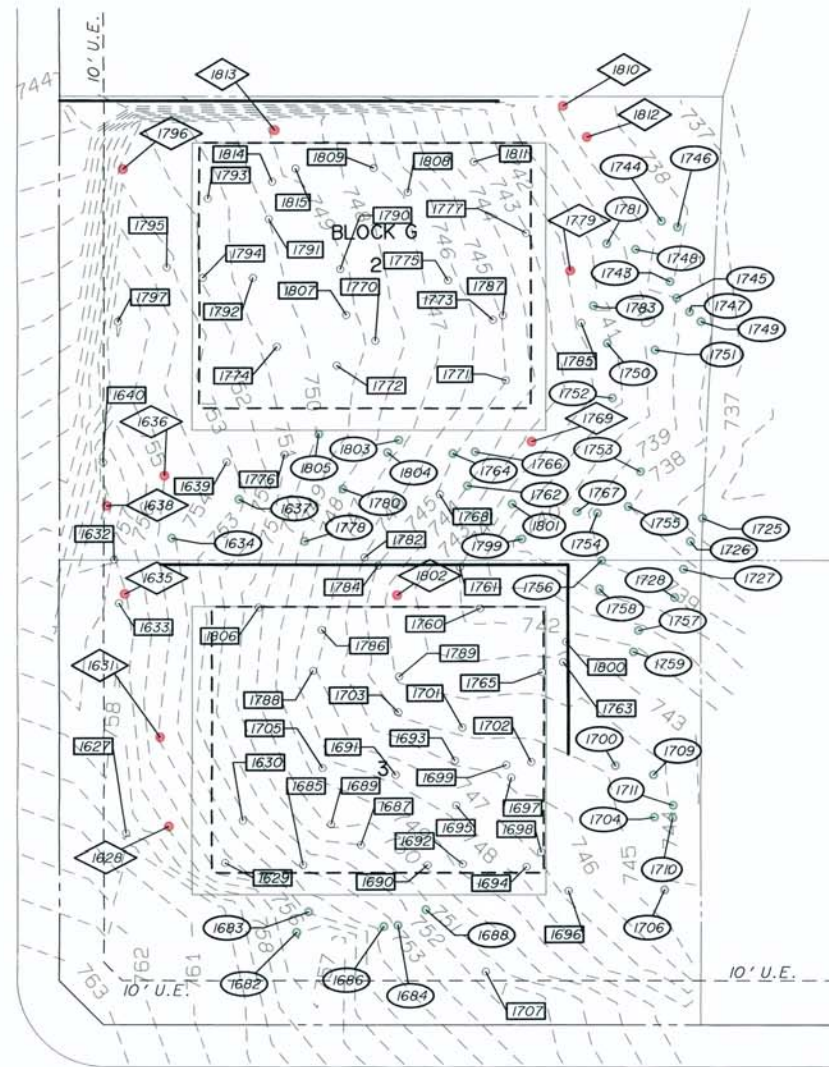
Job No.: 10185 Design: JSM  
Date: MAY, 2014 Draft: RE  
Scale: AS SHOWN Review:  
SHEET: 9 OF 21



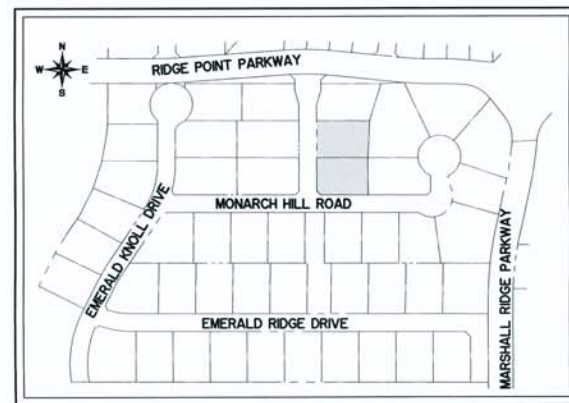




IMPERIAL POINTE DRIVE



MONARCH HILL ROAD



KEY MAP

### TREE SURVEY DATA FOR LOT 2, BLOCK G

TREE NO.	DBH IN. & SPECIES	TREE CONDITION
1632	10" PO	DEAD
1634	8" PO	GOOD
1636	8" PO	GOOD
1637	DBL 12" PO	GOOD
1638	8" PO	GOOD
1639	TRPG 4" PO	DEAD
1640	8" PO	DEAD
1725	7" PO	GOOD
1726	6" PO	GOOD
1743	6" PO	GOOD
1744	8" PO	GOOD
1745	7" PO	GOOD
1746	6" PO	GOOD
1747	6" PO	GOOD
1748	12" PO	GOOD
1749	6" PO	GOOD
1750	6" PO	GOOD
1751	6" PO	GOOD
1752	14" PO	GOOD
1753	14" PO	GOOD
1754	7" PO	GOOD
1755	DBL 6" PO	GOOD
1762	7" PO	GOOD
1764	TRPG 4" PO	GOOD
1766	6" PO	GOOD
1767	DBL 8" PO	GOOD
1768	6" PO	DEAD
1769	6" PO	GOOD
1770	6" PO	DEAD
1771	8" PO	GOOD
1772	TRPG 4" PO	GOOD
1773	12" PO	GOOD
1774	7" PO	GOOD
1775	10" PO	GOOD
1776	7" PO	DEAD
1777	12" PO	GOOD
1778	DBL 7" PO	GOOD
1779	10" PO	GOOD
1780	8" PO	GOOD
1781	8" PO	GOOD
1782	DBL 7" PO	DEAD
1783	8" PO	GOOD
1785	6" PO	DEAD
1787	7" PO	GOOD
1790	DBL 12" PO	GOOD
1791	10" PO	GOOD
1792	6" PO	DEAD
1793	8" PO	GOOD
1794	8" PO	GOOD
1795	7" PO	DEAD
1796	7" PO	GOOD
1797	10" PO	DEAD
1799	6" PO	GOOD
1801	6" PO	GOOD
1803	DBL 6" PO	GOOD
1804	8" PO	GOOD
1805	DBL 6" PO	GOOD
1807	DBL 6" PO	GOOD
1808	DBL 6" PO	GOOD
1809	12" PO	GOOD
1810	10" PO	GOOD
1811	10" PO	GOOD
1812	10" PO	GOOD
1813	10" PO	GOOD
1814	10" PO	GOOD
1815	10" PO	GOOD

TOTAL: 82 INCHES OF TREE REPLACEMENT

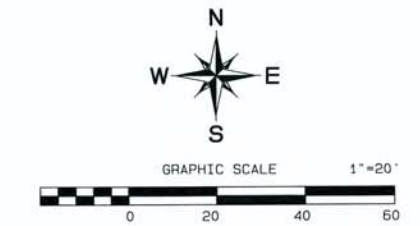
### TREE SURVEY DATA FOR LOT 3, BLOCK G

TREE NO.	DBH IN. & SPECIES	TREE CONDITION
1627	QUAD 6" BJ	DEAD
1628	8" BJ	GOOD
1629	8" PO	GOOD
1630	14" PO	GOOD
1631	8" PO	GOOD
1633	10" PO	DEAD
1635	DBL 10" PO	GOOD
1682	8" PO	GOOD
1683	6" PO	GOOD
1684	6" PO	GOOD
1685	6" PO	GOOD
1686	6" PO	GOOD
1687	8" PO	GOOD
1688	8" PO	GOOD
1689	6" PO	GOOD
1690	DBL 8" PO	GOOD
1691	7" PO	DEAD
1692	7" PO	GOOD
1693	7" PO	GOOD
1694	7" PO	GOOD
1695	7" PO	DEAD
1696	7" PO	DEAD
1697	7" PO	GOOD
1699	DBL 6" PO	GOOD
1700	6" PO	GOOD
1701	TRPG 4" PO	GOOD
1702	DBL 7" PO	GOOD
1703	8" PO	GOOD
1704	8" PO	GOOD
1705	DBL 6" PO	GOOD
1706	7" PO	GOOD
1707	8" PO	DEAD
1709	9" PO	GOOD
1710	7" PO	GOOD
1711	7" PO	GOOD
1727	10" PO	GOOD
1728	6" PO	GOOD
1756	DBL 8" PO	GOOD
1757	6" PO	GOOD
1758	8" PO	GOOD
1759	DBL 6" PO	GOOD
1760	DBL 7" PO	GOOD
1761	TRPG 4" PO	DEAD
1763	8" PO	DEAD
1765	6" PO	GOOD
1784	6" PO	DEAD
1786	7" PO	GOOD
1788	7" PO	GOOD
1789	7" PO	GOOD
1800	6" PO	DEAD
1802	8" PO	GOOD
1806	8" PO	GOOD

TOTAL: 35 INCHES OF TREE REPLACEMENT

**LEGEND**

- 10" PO: SPECIMEN TREE TO BE REMOVED (EXEMPT FROM MITIGATION)
- 8" PO: SPECIMEN TREE TO BE PRESERVED
- 30" PO: SPECIMEN TREE TO BE REMOVED (MITIGATION REQUIRED)
- RETAINING WALL
- 755: EXISTING CONTOUR
- 4,500 S.F. EXEMPT BLDG PAD AREA PERIMETER BASED ON MIN. 3,000 S.F. DWELLING PER MARSHALL RIDGE, PHASE 1 SOUTH ZONING
- PROPOSED 80'x65' BUILDING PAD
- PO= POST OAK
- BJ= BLACK JACK OAK
- 18' D/W: 18' WIDE DRIVEWAY



**NOTES:**

1) TREE HEALTH WAS EVALUATED AS A PART OF THE TREE SURVEY BY A CERTIFIED ARBORIST WITH INTEGRATED ENVIRONMENTAL SOLUTIONS IN NOVEMBER 2013. TREE CONDITIONS NOTED AS "DEAD" ARE TREES THAT WERE IDENTIFIED AS HAVING EXPERIENCED MORTALITY.

2) FOR MULTI-TRUNK TREES, THE TOTAL DIAMETER CALCULATED FOR TREE REPLACEMENT IS BASED ON TAKING THE DIAMETER OF THE MAIN TRUNK, PLUS HALF THE DIAMETER OF THE REMAINING TRUNKS. PER THE KELLER UDC, SECTION 10.02 - EXHIBIT E. EXAMPLE: TRP 8" = 8" (MAIN) + 4" + 4" = 16"

3) ALL MULTI-TRUNK TREES WERE IDENTIFIED BASED ON LARGEST DIAMETER TRUNK, AND FOR SIMPLICITY, REMAINING TRUNKS WERE NOTED BY SURVEY AS HAVING EQUIVALENT DIAMETERS TO THE MAIN TRUNK. EXAMPLE: TRP 8" = THREE 8" DIAMETER TRUNKS

**BENCH MARK ELEVATION: 726.38**  
City of Keller TBM-22 iron rod with washer approximately 50 feet west of the centerline of US Hwy 377 and approximately 2075 feet south of the intersection of US Hwy 377 & Mt. Gilead Road.

5/5/14 - REVISED PER CITY COMMENTS

**REVIEWED**  
CITY OF KELLER  
Released for Construction  
Date  
City Engineer



**MARSHALL RIDGE  
PHASE 1 SOUTH  
CITY OF KELLER, TEXAS**

**TREE SURVEY**

**GOODWIN & MARSHALL**  
CIVIL ENGINEERS-PLANNERS-SURVEYORS  
3400 MARSHALL DRIVE, GRANVILLE, TEXAS 76041

Job No.: 10185 Design: JSW  
Date: MAY, 2014 Draft: RE  
Scale: AS SHOWN Review:  
**SHEET: 11 OF 21**

TOTAL: 117 INCHES OF TREE REPLACEMENT REQUIRED FOR LOTS 2,3, BLOCK G

**LEGEND:**

- 851: 6" OAK GOOD
- 845: 6" OAK GOOD
- 839: 6" OAK GOOD
- TREE TO BE PRESERVED
- TREE TO BE REMOVED, EXEMPT FROM MITIGATION
- TREE TO BE REMOVED, MITIGATION REQUIRED



TREE SURVEY DATA  
 FOR LOT 8, BLOCK F

TREE NO.	DBH IN. & SPECIES	TREE CONDITION
530	6" OAK	GOOD
531	6" OAK	GOOD
532	6" OAK	GOOD
533	6" OAK	GOOD
580	10" OAK	GOOD
581	6" OAK	GOOD
582	6" OAK	GOOD
1108	6" PO	GOOD
1109	8" PO	GOOD
1110	10" PO	DEAD
1111	10" PO	GOOD
1112	10" PO	GOOD
1113	DBL 6" PO	GOOD
1114	TRP 6" PO	GOOD
1115	10" PO	GOOD
1116	10" PO	GOOD
1117	10" PO	GOOD
1118	DBL 6" PO	GOOD
1119	12" PO	GOOD
1121	TRP 6" 8" 10" PO	GOOD
1125	8" PO	GOOD
1127	10" PO	GOOD
1128	10" PO	GOOD
1130	TRP 6" PO	GOOD
1131	DBL 6" PO	GOOD
1132	4-6" PO	GOOD
1133	TRP 6" PO	DEAD
1134	8" PO	GOOD
1135	8" PO	GOOD
1136	6" PO	DEAD
1137	DBL 6" PO	GOOD
1138	8" PO	GOOD
1139	TRP 6" PO	GOOD
1140	8" PO	GOOD
1141	10" PO	GOOD
1142	DBL 6" PO	GOOD
1143	DBL 6" PO	GOOD
1144	8" PO	GOOD
1145	10" PO	GOOD
1146	12" PO	GOOD
1147	12" PO	GOOD
1148	12" PO	GOOD
1149	8" PO	GOOD
1150	8" PO	GOOD
1151	8" PO	GOOD
1161	14" PO	DEAD
1162	8" PO	GOOD
1163	DBL 10" PO	GOOD
1164	TRP 6" PO	GOOD
1165	4" PO	GOOD
1166	DBL 6" PO	GOOD
1167	DBL 6" 12" PO	GOOD
1168	8" PO	GOOD
1169	8" PO	GOOD
1170	12" PO	GOOD
1171	116" 12" 11"	GOOD
1172	6" PO	GOOD
1173	6" PO	GOOD
1194	4-6" PO	GOOD
1195	6" PO	GOOD
1196	6" PO	GOOD
1197	6" PO	GOOD

TOTAL: 74 INCHES OF TREE REPLACEMENT

E:\10185\plans\phase ID 2014\marshall ridge phase ID 65ft pods.pro Tue May 06 17:22:23 2014



TREE NO.	DBH IN 8 SPECIES	TREE CONDITION
2008	14" PO	GOOD
2009	14" PO	GOOD
2010	14" PO	GOOD
2011	0" PO	GOOD
2012	31" PO	GOOD
2013	8" PO	GOOD
2014	DBL 0" 12" PO	GOOD
2015	DBL 8" 12" PO	GOOD
2016	8" PO	GOOD
2017	5" PO	GOOD
2018	8" PO	GOOD
2019	8" PO	GOOD
2020	12" PO	GOOD
2021	DBL 8" PO	GOOD
2022	DBL 8" PO	GOOD
2023	DBL 8" PO	GOOD
2024	DBL 8" PO	GOOD
2025	DBL 8" PO	GOOD
2026	DBL 8" PO	GOOD
2027	10" PO	GOOD
2038	10" PO	DEAD
2039	8" PO	GOOD
2040	8" PO	GOOD
2041	8" PO	GOOD
2042	12" PO	DEAD
2043	0" PO	DEAD
2044	8" PO	DEAD
2045	8" PO	DEAD
2046	DBL 8" 6" PO	GOOD
2047	DBL 12" PO	GOOD
2048	DBL 6" PO	DEAD
2049	8" PO	GOOD
2050	8" PO	GOOD
2051	8" PO	GOOD
2052	8" PO	GOOD
2053	10" PO	DEAD
2054	10" PO	GOOD
2055	8" PO	GOOD
2056	8" PO	GOOD
2057	8" PO	GOOD
2058	8" PO	GOOD
2059	8" PO	GOOD
2060	8" PO	GOOD
2061	8" PO	GOOD
2062	8" PO	GOOD
2063	8" PO	GOOD
2064	8" PO	GOOD
2065	8" PO	GOOD
2066	8" PO	GOOD
2067	8" PO	GOOD
2068	8" PO	GOOD
2069	8" PO	GOOD
2070	8" PO	GOOD
2071	8" PO	GOOD
2072	8" PO	GOOD
2073	8" PO	GOOD
2074	8" PO	DEAD
2075	10" PO	DEAD
2076	10" PO	GOOD
2077	8" PO	GOOD
2078	8" PO	GOOD
2079	8" PO	GOOD

TREE NO.	DBH IN. & SPECIES	TREE CONDITION
1642	11" D. H	GOOD
1643	8" D. H	GOOD
1644	12" D. H	GOOD
1645	14" D. H	GOOD
1646	14" D. H	GOOD
1647	12" D. H	GOOD
1655	12" D. H	GOOD
1657	10" D. H	GOOD
1659	7" D. H	GOOD
1661	6" D. H	GOOD
1662	8" D. H	GOOD
1665	8" D. H	GOOD
1669	12" D. H	GOOD
1671	10" D. H	GOOD
1673	8" D. H	GOOD
1676	12" D. H	GOOD
1679	12" D. H	GOOD
1680	12" D. H	GOOD
1681	12" D. H	GOOD
1682	12" D. H	GOOD
1683	12" D. H	GOOD
1684	12" D. H	GOOD
1685	12" D. H	GOOD
1686	12" D. H	GOOD
1687	12" D. H	GOOD
1688	12" D. H	GOOD
1689	12" D. H	GOOD
1690	12" D. H	GOOD
1691	12" D. H	GOOD
1692	12" D. H	GOOD
1693	12" D. H	GOOD
1694	12" D. H	GOOD
1695	12" D. H	GOOD
1696	12" D. H	GOOD
1697	12" D. H	GOOD
1698	12" D. H	GOOD
1699	12" D. H	GOOD
1700	12" D. H	GOOD
1701	12" D. H	GOOD
1702	12" D. H	GOOD
1703	12" D. H	GOOD
1704	12" D. H	GOOD
1705	12" D. H	GOOD
1706	12" D. H	GOOD
1707	12" D. H	GOOD
1708	12" D. H	GOOD
1709	12" D. H	GOOD
1710	12" D. H	GOOD
1711	12" D. H	GOOD
1712	12" D. H	GOOD
1713	12" D. H	GOOD
1714	12" D. H	GOOD
1715	12" D. H	GOOD
1716	12" D. H	GOOD
1717	12" D. H	GOOD
1718	12" D. H	GOOD
1719	12" D. H	GOOD
1720	12" D. H	GOOD
1721	12" D. H	GOOD
1722	12" D. H	GOOD
1723	12" D. H	GOOD
1724	12" D. H	GOOD
1725	12" D. H	GOOD
1726	12" D. H	GOOD
1727	12" D. H	GOOD
1728	12" D. H	GOOD
1729	12" D. H	GOOD
1730	12" D. H	GOOD
1731	12" D. H	GOOD
1732	12" D. H	GOOD
1733	12" D. H	GOOD
1734	12" D. H	GOOD
1735	12" D. H	GOOD
1736	12" D. H	GOOD
1737	12" D. H	GOOD
1738	12" D. H	GOOD
1739	12" D. H	GOOD
1740	12" D. H	GOOD
1741	12" D. H	GOOD
1742	12" D. H	GOOD
1743	12" D. H	GOOD
1744	12" D. H	GOOD
1745	12" D. H	GOOD
1746	12" D. H	GOOD
1747	12" D. H	GOOD
1748	12" D. H	GOOD
1749	12" D. H	GOOD
1750	12" D. H	GOOD
1751	12" D. H	GOOD
1752	12" D. H	GOOD
1753	12" D. H	GOOD
1754	12" D. H	GOOD
1755	12" D. H	GOOD
1756	12" D. H	GOOD
1757	12" D. H	GOOD
1758	12" D. H	GOOD
1759	12" D. H	GOOD
1760	12" D. H	GOOD
1761	12" D. H	GOOD
1762	12" D. H	GOOD
1763	12" D. H	GOOD
1764	12" D. H	GOOD
1765	12" D. H	GOOD
1766	12" D. H	GOOD
1767	12" D. H	GOOD
1768	12" D. H	GOOD
1769	12" D. H	GOOD
1770	12" D. H	GOOD
1771	12" D. H	GOOD
1772	12" D. H	GOOD
1773	12" D. H	GOOD
1774	12" D. H	GOOD
1775	12" D. H	GOOD
1776	12" D. H	GOOD
1777	12" D. H	GOOD
1778	12" D. H	GOOD
1779	12" D. H	GOOD
1780	12" D. H	GOOD
1781	12" D. H	GOOD
1782	12" D. H	GOOD
1783	12" D. H	GOOD
1784	12" D. H	GOOD
1785	12" D. H	GOOD
1786	12" D. H	GOOD
1787	12" D. H	GOOD
1788	12" D. H	GOOD
1789	12" D. H	GOOD
1790	12" D. H	GOOD
1791	12" D. H	GOOD
1792	12" D. H	GOOD
1793	12" D. H	

TREE NO.	DBH IN. & SPECIES	TREE CONDITION
1582	14" PO	GOOD
1583	6" PO	GOOD
1584	12" PO	GOOD
1586	10" PO	GOOD
1587	8" PO	GOOD
1589	6" PO	GOOD
1591	6" PVO	GOOD
1594	TRN 6" PO	GOOD
1597	10" PO	DEAD
1598	6" PO	GOOD
1619	6" PO	GOOD
1620	6" PO	GOOD
1621	6" PO	DEAD
1622	8" PO	DEAD
1623	8" PO	DEAD
1624	8" PO	DEAD
1625	8" PO	DEAD
1627	DBL 6" PO	DEAD
1628	DBL 6" PO	GOOD
1629	6" PO	GOOD
1631	DBL 8" PO	GOOD
1660	DBL 6" PO	GOOD
1661	8" PO	GOOD
1662	10" PO	GOOD
1663	10" PO	GOOD
1665	8" PO	GOOD
1666	6" PO	GOOD
1667	6" PO	GOOD
1668	DBL 8" PO	DEAD
1669	DBL 10" PO	GOOD
1670	6" ELM	DEAD
1671	TRN 6" PO	GOOD
1672	8" PO	GOOD
1673	6" PO	GOOD
1674	14" PO	GOOD
1675	DBL 10" PO	GOOD
1676	8" PO	DEAD
1679	14" PO	GOOD
1680	10" PO	GOOD
1681	DBL 8" PO	GOOD
1682	8" PO	DEAD
1683	6" PO	DEAD
1684	8" BJ	GOOD
1685	6" PO	GOOD
1686	6" PO	GOOD
1687	8" PO	DEAD
1688	8" PO	DEAD
1689	8" PO	DEAD
1690	8" PO	GOOD
1691	DBL 6" PO	GOOD
1692	6" PO	GOOD
1693	7" PO	DEAD
1694	8" PO	GOOD
1695	8" PO	GOOD
1696	10" PO	GOOD
1698	DBL 8" PO	GOOD
1699	6" PO	GOOD
1902	10" PO	DEAD
1904	DBL 6" PO	GOOD
1906	6" PO	GOOD
1925	6" PO	GOOD
1927	8" PO	GOOD
1928	6" PO	GOOD
1930	6" PO	GOOD
1933	DBL 6" PO	GOOD
1934	DBL 6" PO	GOOD
1939	6" PO	GOOD
1940	6" PO	GOOD
1941	6" PO	GOOD
2222	8" PO	GOOD
2224	4" PO	GOOD
2225	10" PO	GOOD
2226	8" PO	GOOD

TREE NO.	DBH IN. & SPECIES	TREE CONDITION
1912	7" PO	GOOD
1914	7" PO	GOOD
1916	TRP 8" PO	GOOD
1920	9" PO	GOOD
1922	TRP 9" PO	DEAD
1924	6" PO	GOOD
2026	10" PO	GOOD
2057	12" PU	GOOD
2058	12" PU	GOOD
2060	DBL 9" PO	DEAD
2061	11" PU	GOOD
2062	12" PO	DEAD
2063	9" PO	DEAD
2075	8" PU	GOOD
2076	TRP 12" PO	GOOD
2077	DBL 5" PO	GOOD
2078	DBL 6" PO	GOOD
2079	DBL 8" PO	GOOD
2080	11" PU	GOOD
2102	8" PO	GOOD
2103	9" PO	DEAD
2104	9" PO	DEAD
2105	TRP 9" PO	GOOD
2106	DBL 12" PO	GOOD
2107	6" PO	GOOD
2109	12" PU	GOOD
2110	8" PU	GOOD
2243	DBL 8" PO	GOOD
2244	6" PO	GOOD
2245	DBL 6" PO	GOOD
2246	DBL 10IN PO	GOOD
2247	DBL 10IN PO	GOOD
2248	10IN PO	DEAD
2249	DBL 6IN PO	DEAD
2250	9IN PO	GOOD
2251	9IN PO	GOOD
2252	DBL 12" 10IN PO	GOOD
2253	DBL 9IN PO	GOOD
2254	6IN PO	GOOD
2255	8IN PU	GOOD
2256	8IN PU	GOOD
2257	8IN PO	GOOD
2259	9IN PO	GOOD
2260	DBL 10IN PO	GOOD
2261	6IN PO	GOOD
2262	DBL 9" 9" PO	GOOD
2263	TRP 11IN	GOOD
2264	10" PO	DEAD

TREE NO.	DBH IN. & SPECIES	TREE CONDITION
2076	11" P	GOOD
2086	10" PO	GOOD
2086	8" PO	GOOD
2087	TRP 12" PO	GOOD
2081	DBL 6" PO	GOOD
2082	6" PO	GOOD
2083	DBL 6" PO	GOOD
2085	DBL 8" PO	GOOD
2125	6" PO	GOOD
2126	8" PO	GOOD
2127	6" PO	GOOD
2128	8" PO	GOOD
2129	6" PO	GOOD
2130	6" PO	GOOD
2131	8" PO	GOOD
2132	8" PO	GOOD
2133	N. FL	GOOD
2134	8" PO	GOOD
2145	N. FL	GOOD
2136	12" PO	GOOD
2140	6" PO	GOOD
2141	6" PO	GOOD
2142	6" PO	GOOD
2143	6" PO	GOOD
2144	8" PO	GOOD
2145	8" PO	DEAD
2146	8" PO	GOOD
2147	8" PO	DEAD
2148	8" PO	GOOD
2149	8" PO	GOOD
2153	8" PO	GOOD
2154	6" PO	GOOD
2155	N. FL	GOOD
2156	N. FL	GOOD
2157	8" PO	GOOD
2158	6" PO	GOOD
2159	DBL 8" PO	GOOD
2160	12" PO	GOOD
2161	N. FL	GOOD
2162	10" PO	GOOD
2163	6" FL	GOOD
2164	DBL 10" 8" PO	GOOD
2165	6" PO	GOOD
2166	6" PO	GOOD
2167	DBL 10" 8" PO	GOOD
2168	N. FL	GOOD
2169	6" PO	GOOD
2170	TRP 7" PO	GOOD
2171	4" N. FL	GOOD
2172	4" 8" PO	GOOD
2173	8" PO	GOOD
2174	6" FL	GOOD

TREE NO.	DBH IN. & SPECIES	TREE CONDITION
1934	14" PO	GOOD
1935	14" PO	GOOD
1939	12" PO	GOOD
2001	12" PO	GOOD
2084	6" PO	GOOD
2105	DBL 8" PO	GOOD
2106	8" PO	DEAD
2107	DBL 8" PO	GOOD
2109	6" PO	GOOD
2109	DBL 6" PO	GOOD
2140	10" PO	GOOD
2141	10" PO	GOOD
2142	TRIP 5" PO	DEAD
2144	12" PO	DEAD
2145	14" PO	GOOD
2116	8" PO	GOOD
2118	14" PO	GOOD
2119	8" PO	GOOD
2120	12" PO	GOOD
2121	6" PO	GOOD
2122	8" PO	GOOD
2123	DBL 6" PO	GOOD
2124	6" PO	GOOD
2125	14" PO	DEAD

TREE NO.	DBH IN. & SPECIES	TREE CONDITION
2268	DBL 14/10" PO	GOOD
2269	11" DBI	GOOD
2271	5" DBI	GOOD
2271	14" PO	GOOD
2272	8" PO	GOOD
2273	36" PO	GOOD



TREE NO.	DBH IN. & SPECIES	TREE CONDITION
1490	TRIP6' PO	GOOD
1491	6' PO	DEAD
1492	6' PO	GOOD
1493	TRIP6' PO	GOOD
1494	8' PO	GOOD
1495	8' PO	GOOD
1496	DBL8' PO	GOOD
1497	DBL6' PO	GOOD
1498	8' PO	DEAD
1499	12' PO	DEAD
1500	TRIP6' PO	GOOD
1501	DBL6' PO	DEAD
1502	12' 8' PO	GOOD
1503	DBL6' PO	GOOD
1504	8' PO	DEAD
1505	10' PO	GOOD
1506	10' PO	GOOD
1509	8' PO	DEAD
1510	8' PO	DEAD
1511	10' PO	GOOD
1512	DBL10' PO	GOOD
1513	8' PO	GOOD
1514	TRIP6' PO	GOOD
1515	5' 5' PO	GOOD
1516	8' PO	GOOD
1517	8' PO	GOOD
1518	8' PO	GOOD
1519	8' PO	GOOD
1550	DBL12' PO	DEAD
1551	14' PO	GOOD
1552	8' PO	GOOD
1553	8' PO	GOOD
1554	8' PO	GOOD
1555	DBL8' PO	GOOD
1556	6' PO	GOOD
1557	6' PO	GOOD
1559	8' PO	GOOD
1561	8' PO	GOOD
1563	8' PO	GOOD
1564	DBL6' PO	GOOD
1565	6' PO	GOOD
1566	6' PO	GOOD
1567	8' PO	GOOD
1574	8' PO	GOOD
1582	6' PO	GOOD
1593	TRIP6' PO	GOOD
1595	6' PO	GOOD
1596	12' 8' PO	GOOD
1599	6' PO	GOOD
1603	8' PO	GOOD
1605	DBL6' PO	GOOD
1607	6' PO	GOOD
1609	DBL6' PO	GOOD

TREE NO.	DBH IN. & SPECIES	TREE CONDITION
1334	QUAB <sup>2</sup> PO	GOOD
1335	TRN <sup>1</sup> FR	FRUIT
1336	TRN <sup>1</sup>	FRUIT
1339	DBL <sup>0</sup> PO	GOOD
1340	7" PO	GOOD
1341	7" PO	GOOD
1342	7" FR	FRUIT
1343	DBL <sup>0</sup> FR	FRUIT
1344	DBL <sup>0</sup> PO	GOOD
1361	DBL <sup>6</sup> PO	GOOD
1362	7" PO	GOOD
1363	7" PO	GOOD
1512	DBL <sup>6</sup> PO	GOOD
1500	DBL <sup>0</sup> FVO	GOOD
1513	7" PO	GOOD
1514	12" PO	GOOD
1515	12" PO	DEAD
1516	6" PO	GOOD
1517	10" PO	DEAD
1518	8" PO	GOOD
1519	9" PO	GOOD
1521	7" FR	FRUIT
1521	6" PO	GOOD
1522	DBL <sup>0</sup> PO	GOOD
1523	DBL <sup>0</sup>	GOOD
1524	DBL <sup>8</sup> PO	GOOD
1525	DBL <sup>6</sup> PO	GOOD
1526	7" PO	GOOD
1527	6" PO	GOOD
1528	10" PO	GOOD
1529	DBL <sup>0</sup> PO	GOOD
1531	7" FR	FRUIT
1531	6" PO	GOOD
1532	6" FR	FRUIT
1533	6" FR	FRUIT
1535	8" PO	GOOD
1536	8" PO	GOOD
1537	8" PO	GOOD
1538	10" PO	GOOD
1541	DBL <sup>0</sup> FR	FRUIT
1542	DBL <sup>6</sup> PO	GOOD
1544	7" PO	GOOD
1545	TRFP <sup>6</sup> PO	DEAD

TREE NO.	DBH IN. 8 SPECIES	TREE CONDITION
1326	10" PO	DEAD
1327	DBL 7" PO	GOOD
1329	DBL 7" PO	GOOD
1330	6" PO	GOOD
1330	6" PO	GOOD
1331	6" PO	GOOD
1332	6" PO	GOOD
1333	TRPG 6" PO	GOOD
1335	DBL 8" PO	GOOD
1344	8" PO	GOOD
1345	7" PO	GOOD
1346	DBL 6" PO	GOOD
1347	7" PO	GOOD
1348	7" PO	GOOD
1349	6" PO	GOOD
1350	10" PO	GOOD
1351	TRPG 6" PO	GOOD
1352	DBL 7" PO	GOOD
1353	DBL 7" PO	GOOD
1354	DBL 6" PO	GOOD
1356	7" PO	GOOD
1357	6" PO	GOOD
1358	DBL 8" PO	GOOD
1367	DBL 6" PO	GOOD
1368	9" PO	GOOD
1369	DBL 8" PO	GOOD
1373	6" PO	GOOD
1620	10" PO	GOOD
1624	8" PO	GOOD
1625	5 10" PO	GOOD
1626	DBL 10" PO	GOOD

TREE NO.	DBH IN. & SPECIES	TREE CONDITION
1324	6" PO	GOOD
1325	6" PO	GOOD
1360	6" PO	GOOD
1361	DBL 6" PO	GOOD
1362	DBL 6" PO	GOOD
1363	6" PO	DEAD
1364	6" PO	GOOD
1365	TRAP 6" PO	GOOD
1366	6" PO	GOOD
1367	6" PO	GOOD
1369	6" PO	GOOD
1390	6" FINE	DEAD
1391	6" PO	GOOD
1392	7" PO	GOOD
1393	DBL 6" PO	GOOD
1394	6" PO	GOOD
1395	6" PO	GOOD
1396	DBL 10" PO	GOOD
1397	10" PO	GOOD
1398	DBL 10" PO	GOOD
1399	6" PO	GOOD
1400	6" PO	GOOD
1401	DBL 6" PO	GOOD
1402	7" PO	GOOD
1403	6" PO	DEAD
1404	6" PO	GOOD
1405	14" PO	GOOD
1406	8" PO	GOOD
1407	6" PO	GOOD
1408	6" PO	GOOD
1409	6" PO	DEAD
1410	6" PO	GOOD
1411	8" PO	DEAD
1412	DBL 8" PO	GOOD
1413	6" PO	GOOD
1415	8" PO	GOOD
1416	6" PO	GOOD

TREE NO.	DBH IN. & SPECIES	TREE CONDITION
1365	DBL 6" PO	GOOD
1366	7" PO	GOOD
1370	8" PO	GOOD
1371	16" PO	GOOD
1372	9" PO	GOOD
1373	12" PO	GOOD
1375	DBL 7" PO	GOOD
1376	6" PO	GOOD
1377	6" PO	DEAD
1378	DBL 6" PO	GOOD
1379	6" PO	DEAD
1400	6" PO	GOOD
1410	6" PO	GOOD
1420	10" PO	GOOD
1421	14" PO	GOOD
1422	7" PO	GOOD
1423	DBL 8" PO	GOOD
1424	8" PO	GOOD
1425	8" PO	GOOD
1426	DBL 6" PO	GOOD
1427	6" PO	GOOD
1428	8" PO	GOOD
1429	DBL 6" PO	DEAD
1430	DBL 6" PO	GOOD
1431	8" PO	GOOD
1432	8" PO	GOOD
1433	8" PO	GOOD
1434	6" PO	GOOD
1435	DBL 7" PO	GOOD
1436	DBL 7" PO	GOOD
1437	7" PO	GOOD
1438	8" PO	GOOD
1443	6" PO	DEAD

TREE NO.	DBH IN. & SPECIES	TREE CONDITION
1364	DBL 8" PO	GOOD
1440	DBL 6" PO	GOOD
1441	7" PO	GOOD
1442	8" PO	GOOD
1443	8" PO	GOOD
1445	DBL 12" PO	GOOD
1446	DBL 6" PO	GOOD
1447	8" PO	GOOD
1448	8" PO	GOOD
1449	DBL 6" PO	GOOD
1450	8" PO	GOOD
1451	TRP 6" PO	GOOD
1452	DBL 8" PO	GOOD
1453	8" PO	GOOD
1454	7" PO	GOOD
1455	7" PO	GOOD
1456	TRP 7" PO	GOOD
1457	8" PO	GOOD
1458	8" PO	GOOD
1459	8" PO	GOOD
1460	8" PO	GOOD
1461	8" PO	GOOD
1462	8" PO	GOOD
1463	DBL 7" PO	GOOD
1464	DBL 7" PO	GOOD
1465	8" PO	GOOD
1466	8" PO	GOOD
1467	DBL 6" PO	GOOD
1468	8" PO	GOOD
1469	8" PO	GOOD
1470	8" PO	DEAD
1471	8" PO	GOOD
1472	8" PO	GOOD
1473	8" PO	GOOD
1474	8" PO	GOOD
1475	DBL 6" PO	GOOD
1476	6" PO	GOOD
1477	6" PO	GOOD
1478	DBL 6" PO	GOOD
1479	8" PO	GOOD
1480	8" PO	DEAD
1481	8" PO	GOOD
1482	8" PO	GOOD
1483	8" PO	GOOD
1485	8" PO	GOOD
1486	8" PO	GOOD
1487	TRP 7" PO	GOOD
1488	8" PO	DEAD
1489	6" PO	GOOD

TREE NO.	DBH IN. & SPECIES	TREE CONDITION
1460	7" PO	GOOD
1462	DBL 0' PO	DEAD
1463	TRP 6' PO	GOOD
1464	TRP 6' PO	GOOD
1465	8' PO	GOOD
1466	6' PO	GOOD
1467	6' PO	GOOD
1468	DBL 7' PO	GOOD
1469	DBL 7' PO	GOOD
1470	8' PO	GOOD
1471	8' PO	GOOD
1494	DBL 0' PO	GOOD
1588	TRP 6' PO	GOOD
1590	DBL 6' PO	GOOD
1600	TRP 8' PO	GOOD
1602	7' PO	GOOD
1604	8' PO	GOOD
1606	TRP 8' PO	GOOD
1608	DBL 6' PO	GOOD
1610	DBL 6' PO	GOOD
1611	12' PO	GOOD
1612	6' PO	GOOD
1613	6' PO	GOOD
1614	6' PO	GOOD
1615	8' PO	GOOD
1616	DBL 8' PO	GOOD
1617	8' PO	GOOD
1618	6' PO	GOOD
1619	10' ELM	GOOD
1620	8' PO	GOOD
1621	DBL 10' PO	GOOD
1622	TRP 6' PO	GOOD
1736	6' OAK	GOOD
1826	8' PO DEAD	DEAD
1830	DBL 0' PO	DEAD
1832	10' PO	GOOD
1833	6' PO	GOOD
1834	8' PO	GOOD
1835	TRP 6' PO	GOOD
1836	6' CEDAR	GOOD
1837	8' PO	GOOD
1838	8' PO	GOOD
1839	8' PO	GOOD
1840	6' PO	DEAD
1841	DBL 6' PO	GOOD
1842	DBL 6' PO	GOOD
1843	6' PO	GOOD
1844	DBL 8' PO	DEAD
1845	6' PO	GOOD
1846	8' PO	GOOD
1847	6' PO	GOOD
1848	6' PO	DEAD
1849	8' PO	GOOD
1850	8' PO	GOOD
1851	7' PO	GOOD
1852	10' PO	GOOD
1853	DBL 8' PO	GOOD
1854	8' PO	GOOD
1855	6' PO	GOOD
1856	DBL 8' PO	GOOD
1857	10' PO	GOOD
1858	6' PO	GOOD
1859	6' ELM	GOOD

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**TREE SURVEY DATA  
FOR LOT 19, BLOCK D**

TREE NO.	DBH IN. & SPECIES	TREE CONDITION
3	10" PO	DEAD
4	8" PO	DEAD
5	8" PO	DEAD
6	DBL 7" PO	DEAD
7	8" PO	DEAD
8	10" PO	GOOD
9	6" PO	GOOD
10	6" PO	GOOD
11	6" PO	GOOD
12	TRP 6" PO	GOOD
13	7" PO	GOOD
14	8" PO	GOOD
50	8" PO	GOOD
51	6" PO	GOOD
52	6" PO	GOOD
984	8" PO	GOOD
985	8" PO	GOOD
986	6" PO	GOOD
990	DBL 6" PO	GOOD
2379	6" PO	GOOD
2380	8" PO	GOOD
2381	DBL 8" PO	GOOD
2382	DBL 8" PO	GOOD
2383	10" PO	GOOD
2384	DBL 6" PO	GOOD
2385	6" PO	GOOD
2394	8" PO	GOOD
2395	10" PO	GOOD
2396	7" PO	GOOD
2397	6" PO	DEAD
2398	14" PO	GOOD
2399	11" PO	GOOD
2400	TRP 7" PO	GOOD
2401	8" PO	GOOD
2402	6" PO	GOOD
2403	9" PO	GOOD
2404	8" PO	GOOD
2405	9" PO	DEAD
2406	14" PO	GOOD
2407	6" PO	GOOD
2408	8" PO	GOOD
2409	9" PO	GOOD
2410	10" PO	GOOD
2411	6" PO	GOOD
2412	6" PO	GOOD
2413	6" PO	GOOD
2414	6" PO	GOOD
2417	8" PO	GOOD
2420	TRP 8" PO	GOOD
2421	6" PO	GOOD
2422	7" PO	GOOD
2423	8" PO	GOOD
2424	DBL 6" PO	GOOD

TOTAL: 34 INCHES OF TREE REPLACEMENT

**TREE SURVEY DATA  
FOR LOT 20, BLOCK D**

TREE NO.	DBH IN. & SPECIES	TREE CONDITION
1	10" PO	DEAD
2	10" PO	DEAD
49	DBL 6" PO	GOOD
2425	7" PO	GOOD
2426	8" PO	DEAD
2427	7" PO	DEAD
2428	TRP 6" PO	GOOD
2429	6" PO	GOOD
2430	DBL 7" PO	GOOD
2431	8" PO	GOOD
2432	DBL 7" PO	GOOD
2433	DBL 8" PO	GOOD
2438	8" PO	GOOD
2439	11" PO	GOOD
2440	10" PO	GOOD
2441	DBL 7" PO	GOOD
2448	10" PO	GOOD
2449	8" PO	GOOD
2450	8" PO	GOOD
2451	8" PO	GOOD
2452	8" PO	GOOD
2453	8" PO	GOOD
2454	8" PO	GOOD
2455	8" PO	GOOD
2456	10" PO	GOOD
2458	10" PO	GOOD
2459	10" PO	GOOD
2460	10" PO	GOOD
2461	10" PO	GOOD
2462	10" PO	GOOD
2463	10" PO	GOOD
2464	10" PO	GOOD
2465	10" PO	GOOD
2466	10" PO	GOOD
2467	10" PO	GOOD
2468	10" PO	GOOD
2469	10" PO	GOOD
2470	10" PO	GOOD
2471	10" PO	GOOD
2472	10" PO	GOOD
2473	10" PO	GOOD
2474	10" PO	GOOD
2475	10" PO	GOOD
2476	10" PO	GOOD
2477	10" PO	GOOD
2478	10" PO	GOOD
2479	10" PO	GOOD
2480	10" PO	GOOD
2481	10" PO	GOOD
2482	10" PO	GOOD
2483	10" PO	GOOD
2484	10" PO	GOOD
2485	10" PO	GOOD
2486	10" PO	GOOD
2487	10" PO	GOOD
2488	10" PO	GOOD
2489	10" PO	GOOD
2490	10" PO	GOOD
2491	10" PO	GOOD
2492	10" PO	GOOD
2493	10" PO	GOOD
2494	10" PO	GOOD
2495	10" PO	GOOD
2496	10" PO	GOOD
2497	10" PO	GOOD
2498	10" PO	GOOD
2499	10" PO	GOOD
2500	10" PO	GOOD
2501	10" PO	GOOD
2502	10" PO	GOOD
2503	10" PO	GOOD
2504	10" PO	GOOD
2505	10" PO	GOOD
2506	10" PO	GOOD
2507	10" PO	GOOD
2508	10" PO	GOOD
2509	10" PO	GOOD
2510	10" PO	GOOD
2511	10" PO	GOOD
2512	10" PO	GOOD
2513	10" PO	GOOD
2514	10" PO	GOOD
2515	10" PO	GOOD
2516	10" PO	GOOD
2517	10" PO	GOOD
2518	10" PO	GOOD
2519	10" PO	GOOD
2520	10" PO	GOOD
2521	10" PO	GOOD
2522	10" PO	GOOD
2523	10" PO	GOOD
2524	10" PO	GOOD
2525	10" PO	GOOD
2526	10" PO	GOOD
2527	10" PO	GOOD
2528	10" PO	GOOD
2529	10" PO	GOOD
2530	10" PO	GOOD
2531	10" PO	GOOD
2532	10" PO	GOOD
2533	10" PO	GOOD
2534	10" PO	GOOD
2535	10" PO	GOOD
2536	10" PO	GOOD
2537	10" PO	GOOD
2538	10" PO	GOOD
2539	10" PO	GOOD
2540	10" PO	GOOD
2541	10" PO	GOOD
2542	10" PO	GOOD
2543	10" PO	GOOD
2544	10" PO	GOOD
2545	10" PO	GOOD
2546	10" PO	GOOD
2547	10" PO	GOOD
2548	10" PO	GOOD
2549	10" PO	GOOD
2550	10" PO	GOOD
2551	10" PO	GOOD
2552	10" PO	GOOD
2553	10" PO	GOOD
2554	10" PO	GOOD
2555	10" PO	GOOD
2556	10" PO	GOOD
2557	10" PO	GOOD
2558	10" PO	GOOD
2559	10" PO	GOOD
2560	10" PO	GOOD
2561	10" PO	GOOD
2562	10" PO	GOOD
2563	10" PO	GOOD
2564	10" PO	GOOD
2565	10" PO	GOOD
2566	10" PO	GOOD
2567	10" PO	GOOD
2568	10" PO	GOOD
2569	10" PO	GOOD
2570	10" PO	GOOD
2571	10" PO	GOOD
2572	10" PO	GOOD
2573	10" PO	GOOD
2574	10" PO	GOOD
2575	10" PO	GOOD
2576	10" PO	GOOD
2577	10" PO	GOOD
2578	10" PO	GOOD
2579	10" PO	GOOD
2580	10" PO	GOOD
2581	10" PO	GOOD
2582	10" PO	GOOD
2583	10" PO	GOOD
2584	10" PO	GOOD
2585	10" PO	GOOD
2586	10" PO	GOOD
2587	10" PO	GOOD
2588	10" PO	GOOD
2589	10" PO	GOOD
2590	10" PO	GOOD
2591	10" PO	GOOD
2592	10" PO	GOOD
2593	10" PO	GOOD
2594	10" PO	GOOD
2595	10" PO	GOOD
2596	10" PO	GOOD
2597	10" PO	GOOD
2598	10" PO	GOOD
2599	10" PO	GOOD
2600	10" PO	GOOD

TOTAL: 201 INCHES OF TREE REPLACEMENT

**TREE SURVEY DATA  
FOR LOT 21, BLOCK D**

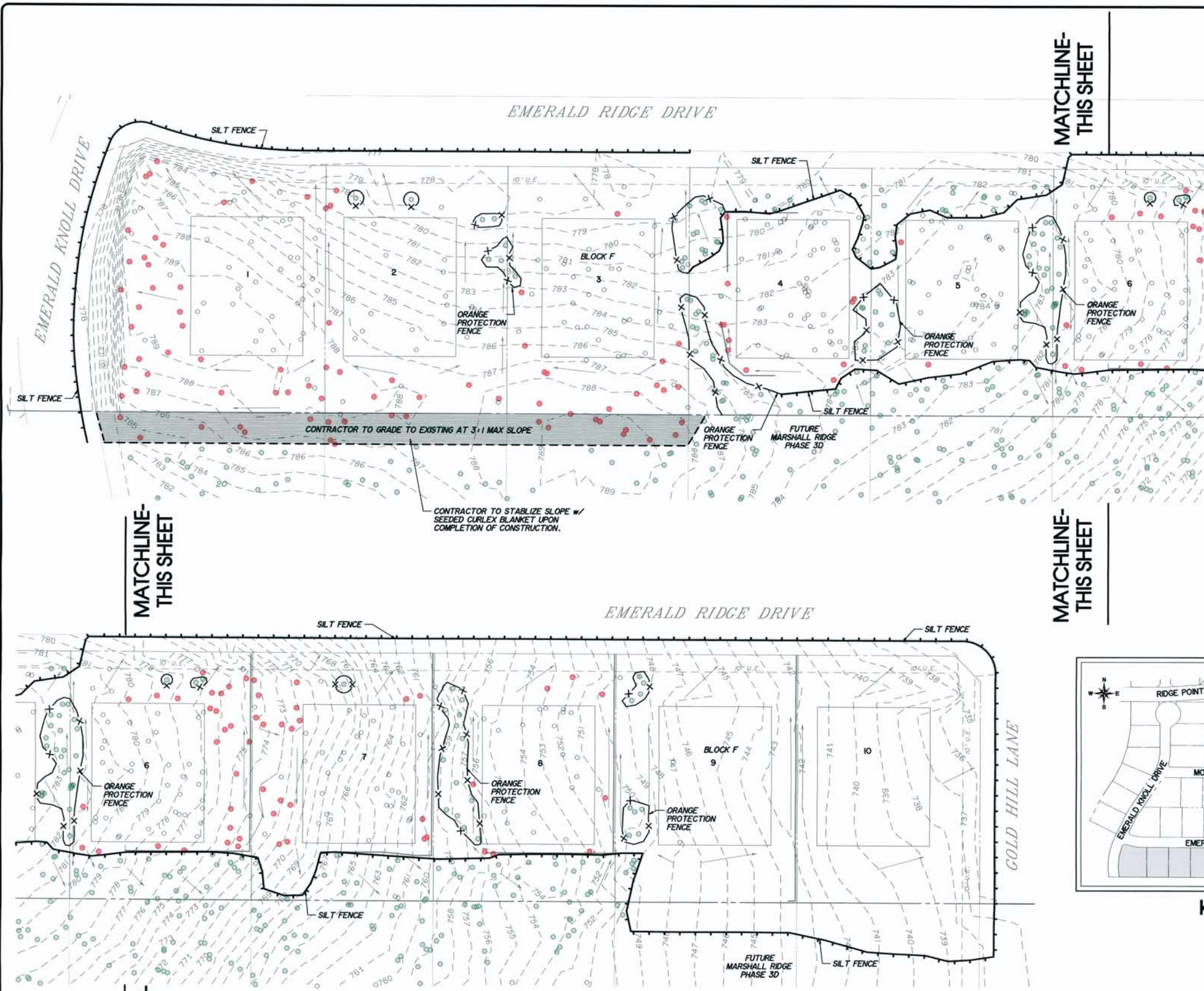
TREE NO.	DBH IN. & SPECIES	TREE CONDITION
15	DBL 6" PO	GOOD
16	DBL 6" PO	GOOD
17	DBL 6" PO	GOOD
18	DBL 6" PO	DEAD
19	7" PO	GOOD
20	7" PO	GOOD
21	11" PO	GOOD
22	11" PO	GOOD
23	7" PO	DEAD
24	7" PO	DEAD
25	7" PO	GOOD
26	11" PO	GOOD
27	6" PO	GOOD
28	QUDE 6" PO	GOOD
29	6" PO	GOOD
30	6" PO	GOOD
31	DBL 6" PO	GOOD
32	6" PO	GOOD
33	DBL 6" PO	DEAD
34	6" PO	DEAD
40	7" PO	GOOD
41	6" PO	DEAD
42	10" PO	GOOD
43	10" PO	GOOD
44	TRP 6" PO	GOOD
45	DBL 6" PO	GOOD
46	TRP 6" PO	DEAD
47	10" PO	GOOD
48	6" PO	GOOD
49	DBL 6" PO	DEAD
50	DBL 6" PO	DEAD
51	DBL 6" PO	DEAD
52	DBL 6" PO	DEAD
53	DBL 6" PO	DEAD
54	DBL 6" PO	DEAD
55	DBL 6" PO	DEAD
56	DBL 6" PO	DEAD
57	DBL 6" PO	DEAD
58	DBL 6" PO	DEAD
59	DBL 6" PO	DEAD
60	DBL 6" PO	DEAD
61	DBL 6" PO	DEAD
62	DBL 6" PO	DEAD
63	DBL 6" PO	DEAD
64	DBL 6" PO	DEAD
65	DBL 6" PO	DEAD
66	DBL 6" PO	DEAD
67	DBL 6" PO	DEAD
68	DBL 6" PO	DEAD
69	DBL 6" PO	DEAD
70	DBL 6" PO	DEAD
71	DBL 6" PO	DEAD
72	DBL 6" PO	DEAD
73	DBL 6" PO	DEAD
74	DBL 6" PO	DEAD
75	DBL 6" PO	DEAD
76	DBL 6" PO	DEAD
77	DBL 6" PO	DEAD
78	DBL 6" PO	DEAD
79	DBL 6" PO	DEAD
80	DBL 6" PO	DEAD
81	DBL 6" PO	DEAD
82	DBL 6" PO	DEAD
83	DBL 6" PO	DEAD
84	DBL 6" PO	DEAD
85	DBL 6" PO	DEAD
101	8" PO	GOOD
102	6" PO	GOOD
103	6" PO	GOOD
104	6" PO	GOOD
105	6" PO	GOOD
106	6" PO	GOOD
107	6" PO	GOOD
108	6" PO	GOOD
109	6" PO	GOOD
110	6" PO	GOOD
111	6" PO	GOOD
112	6" PO	GOOD
113	6" PO	GOOD
114	6" PO	GOOD
115	6" PO	GOOD
116	6" PO	GOOD
117	6" PO	GOOD
118	6" PO	GOOD
119	6" PO	GOOD
120	6" PO	GOOD
121	10" PO	GOOD
122	6" PO	GOOD
123	8" PO	GOOD
124	DBL 6" PO	GOOD
125	14" PO	GOOD
126	8" PO	GOOD
127	8" PO	GOOD
128	14" PO	GOOD
129	8" PO	GOOD
130	6" PO	GOOD
131	6" PO	GOOD
132	6" PO	GOOD
133	6" PO	GOOD
134	6" PO	GOOD
135	6" PO	GOOD
136	6" PO	GOOD
137	6" PO	GOOD
138	6" PO	GOOD
139	6" PO	GOOD
140	6" PO	GOOD
141	6" PO	GOOD
142	6" PO	GOOD
143	6" PO	GOOD
144	6" PO	GOOD
145	6" PO	GOOD
146	6" PO	GOOD
147	6" PO	GOOD
148	6" PO	GOOD
149	6" PO	GOOD
150	6" PO	GOOD
151	6" PO	GOOD
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153	6" PO	GOOD
154	6" PO	GOOD
155	6" PO	GOOD
156	6" PO	GOOD
157	6" PO	GOOD
158	6" PO	GOOD
159	6" PO	GOOD
160	6" PO	GOOD
161	6" PO	GOOD
162	6" PO	GOOD
163	6" PO	GOOD
164	6" PO	GOOD
165	6" PO	GOOD
166	6" PO	GOOD
167	6" PO	GOOD
168	6" PO	GOOD
169	6" PO	GOOD
170	6" PO	GOOD
171	6" PO	GOOD
172	6" PO	GOOD
173	6" PO	GOOD
174	6" PO	GOOD
175	6" PO	GOOD
176	6" PO	GOOD
177	6" PO	GOOD
178	6" PO	GOOD
179	6" PO	GOOD
180	6" PO	GOOD
181	6" PO	GOOD
182	6" PO	GOOD
183	6" PO	GOOD
184	6" PO	GOOD
185	6" PO	GOOD
186	6" PO	GOOD
187	6" PO	GOOD
188	6" PO	GOOD
189	6" PO	GOOD
190	6" PO	GOOD

TOTAL: 79 INCHES OF TREE REPLACEMENT

**TREE SURVEY DATA  
FOR LOT 22, BLOCK D**

TREE NO.	DBH IN. & SPECIES	TREE CONDITION
35	6" PO	GOOD
36	6" PO	GOOD
37	DBL 6" PO	GOOD
38	8" PO	GOOD
39	7" PO	GOOD
40	6" PO	GOOD
41	6" PO	GOOD
42	6" PO	GOOD
43	6" PO	GOOD
44	6" PO	GOOD
45	6" PO	GOOD
46	6" PO	GOOD
47	6" PO	GOOD
48	6" PO	GOOD
49	6" PO	GOOD
50	6" PO	GOOD
51	6" PO	GOOD
52	6" PO	GOOD
53	6" PO	GOOD
54	6" PO	GOOD
55	6" PO	GOOD
56	6" PO	GOOD
57	6" PO	GOOD
58	6" PO	GOOD
59	6" PO	GOOD
60	10" PO	GOOD
61	8" PO	GOOD
62	6" PO	GOOD
63	DBL 6" PO	GOOD
64	8" PO	GOOD
65	DBL 14" PO	GOOD
66	DBL 6" PO	GOOD
67	DBL 6" PO	GOOD
68	14" PO	GOOD
69	8" PO	GOOD
70	8" PO	GOOD
71	8" PO	GOOD
72	8" PO	GOOD
73	DBL 8" PO	GOOD





**LEGEND**

—X—X— ORANGE PROTECTION FENCE

—SILT FENCE

**EROSION CONTROL NOTES**

1. SOIL EROSION AND SEDIMENT CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE FEDERAL AND LOCAL REGULATIONS.
2. RESPONSIBILITY FOR INSTALLATION, ROUTINE INSPECTION, AND MAINTENANCE OF EROSION CONTROL SHOULD BE DEFINED AND ASSIGNED TO APPROPRIATE PERSON(S) PRIOR TO COMMENCEMENT OF ANY SOIL DISTURBING ACTIVITY.
3. EROSION CONTROL MEASURES MUST BE CONSTRUCTED AND FUNCTIONAL BEFORE ANY GRADING OR LAND DISTURBANCE TAKES PLACE.
4. TEMPORARY OR PERMANENT SOIL STABILIZATION MUST BE APPLIED TO ALL DENUDED AREAS WHEN FINAL GRADE IS REACHED ON ANY PORTION OF SITE. TEMPORARY SOIL STABILIZATION MUST BE APPLIED TO DISTURBED AREAS LEFT DORMANT FOR EXCESSIVE PERIOD.
5. IN THE EVENT THAT MEASURES BEING USED ARE DEEMED TO BE INEFFECTIVE BY TOWN INSPECTORS, ADDITIONAL MEASURES OR CHANGES IN THE ORIGINAL PLAN MAY BE REQUIRED BY THE TOWN OF NORTHLAKE.
6. ALL EROSION CONTROL DEVICES SHALL BE INSPECTED BY THE SITE FOREMAN DAILY. ANY STRUCTURE OR CONTROL DEVICE WHICH IS DAMAGED OR INOPERATIVE WILL BE REPAIRED OR REPLACED IMMEDIATELY.
7. PROVIDE EROSION PROTECTION FOR ALL STORM INLETS AND PIPE OPENINGS WITH FILTER SOCKS OR OTHER APPROPRIATE MEASURES.
8. CONSTRUCTION ENTRANCES/EXITS SHOULD BE LIMITED AND PROTECTION PROVIDED TO PREVENT TRACKING OF SOILS ONTO CITY STREETS. CONTRACTOR SHALL INSTALL INDIVIDUAL LOT CONSTRUCTION ENTRANCE AND EXITS AS REQUIRED FOR ACCESS.
9. REMOVE SILT OR SEDIMENTS FROM STREETS, CURBS, GUTTERS, FLUMES, HANDICAP ACCESS RAMPS, CURB INLETS, STORM DRAINS, AND ANY OTHER PUBLIC DRAINAGE FACILITIES DAILY OR AS ACCUMULATION OCCURS.
10. EROSION CONTROL SHOULD BE EVALUATED TO DETERMINE THE EFFECTIVENESS OF THOSE DEVICES BY THE PERSON ASSIGNED TO INSPECT EROSION CONTROL DEVICES, AND CHANGES MADE IF NECESSARY.

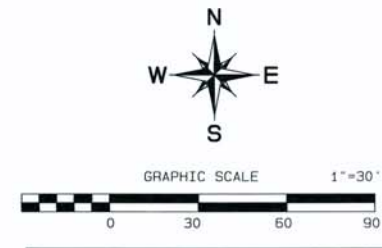
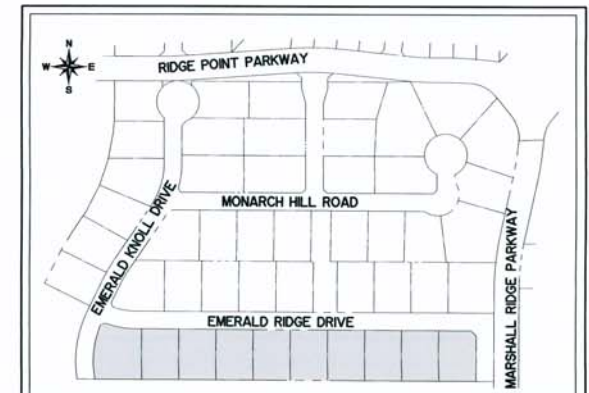
**NOTE:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, INCLUDING THE TCEQ PERMIT & NOTIFICATION.

SILT FENCING AND ORANGE PROTECTION FENCING FOR PRESERVED TREES SHALL BE INSTALLED PRIOR TO ONSET OF EARTHWORK ACTIVITIES, AND SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED.

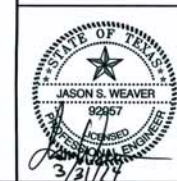
EROSION CONTROL MEASURES MAY ONLY BE PLACED IN FRONT OF INLETS, OR IN CHANNELS, DRAINAGE WAYS OR BORROW DITCHES AT RISK OF CONTRACTOR. CONTRACTOR SHALL REMAIN LIABLE FOR ANY DAMAGE CAUSED BY THE MEASURES, INCLUDING FLOODING DAMAGE WHICH MAY OCCUR DUE TO BLOCKED DRAINAGE. AT THE CONCLUSION OF ANY PROJECT, ALL CHANNELS, DRAINAGE WAYS AND BORROW DITCHES IN THE WORK ZONE SHALL BE DREDGED OF ANY SEDIMENT GENERATED BY THE PROJECT OR DEPOSITED AS A RESULT OF EROSION CONTROL MEASURES.

SEE SHEET 20 FOR EROSION CONTROL DETAILS.



**NOTE:**  
THE EROSION CONTROL LAYOUT AS SHOWN IS FOR SCHEMATIC PURPOSES ONLY. THE DEVELOPER HAS CONTRACTED WITH AN EROSION CONTROL SPECIALIST FOR THE DESIGN AND IMPLEMENTATION OF THE FINAL EROSION CONTROL PLAN. GOODWIN & MARSHALL, INC. SHALL BE HELD HARMLESS FOR THE FINAL DESIGN, LOCATION, AND INSTALLATION OF ALL EROSION CONTROL DEVICES ASSOCIATED WITH THIS PROJECT AND THE FINAL STORM WATER POLLUTION PREVENTION PLAN.

**REVIEWED**  
CITY OF KELLER  
Released for Construction  
Date \_\_\_\_\_  
City Engineer \_\_\_\_\_

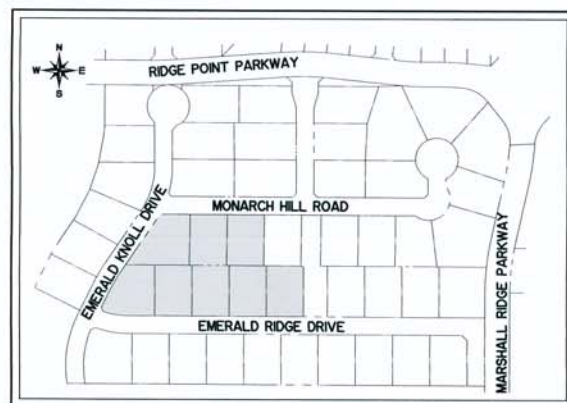


**MARSHALL RIDGE  
PHASE 1 SOUTH  
CITY OF KELLER, TEXAS**

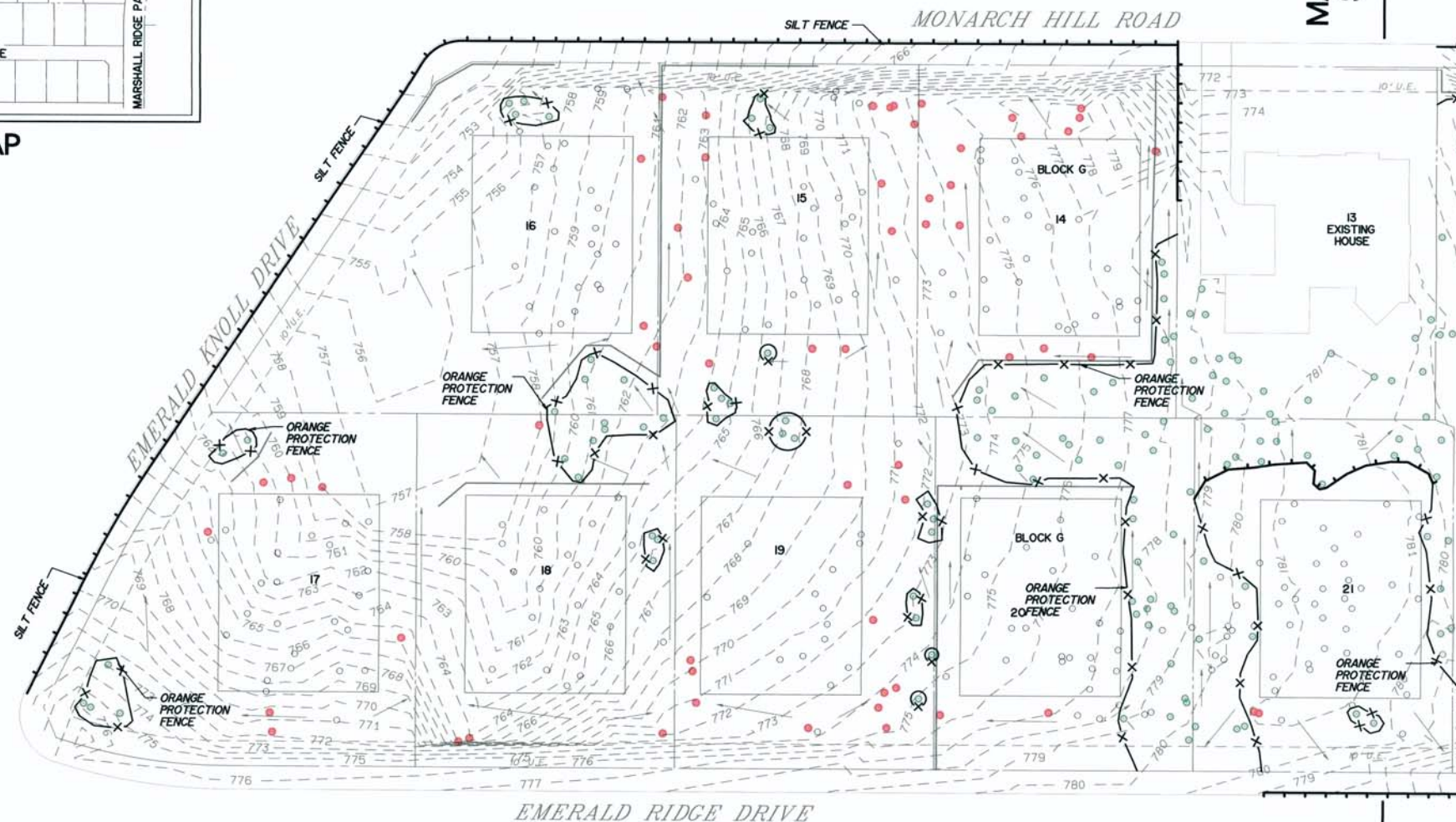
**EROSION CONTROL & TREE  
PROTECTION PLAN**

<b>GOODWIN &amp; MARSHALL</b>		Job No. : 10185	Design : JSW
CIVIL ENGINEERS-PLANNERS-SURVEYORS		Date : MAY, 2014	Draft : RE
3608 MARSHALL DRIVE, GRANDVILLE, TEXAS 76051		Scale : AS SHOWN	Review : _____
		<b>SHEET : 16 OF 21</b>	





KEY MAP



LEGEND	
	ORANGE PROTECTION FENCE
	SILT FENCE



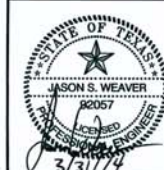
BENCH MARK ELEVATION: 726.38  
City of Keller TBM-22 iron rod with washer approximately 50 feet west of the centerline of US Hwy 377 and approximately 2075 feet south of the intersection of US Hwy 377 & M. Gilead Road.

MATCHLINE-SHEET 18

MATCHLINE-SHEET 18

NOTE:  
THE EROSION CONTROL LAYOUT AS SHOWN IS FOR SCHEMATIC PURPOSES ONLY. THE DEVELOPER HAS CONTRACTED WITH AN EROSION CONTROL SPECIALIST FOR THE DESIGN AND IMPLEMENTATION OF THE FINAL EROSION CONTROL PLAN. GOODWIN & MARSHALL, INC. SHALL BE HELD HARMLESS FOR THE FINAL DESIGN, LOCATION, AND INSTALLATION OF ALL EROSION CONTROL DEVICES ASSOCIATED WITH THIS PROJECT AND THE FINAL STORM WATER POLLUTION PREVENTION PLAN.

REVIEWED  
CITY OF KELLER  
Released for Construction  
Date \_\_\_\_\_  
City Engineer \_\_\_\_\_



MARSHALL RIDGE  
PHASE 1 SOUTH  
CITY OF KELLER, TEXAS

EROSION CONTROL & TREE  
PROTECTION PLAN

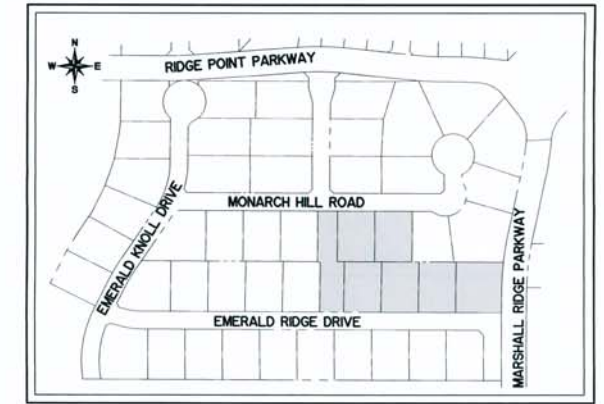
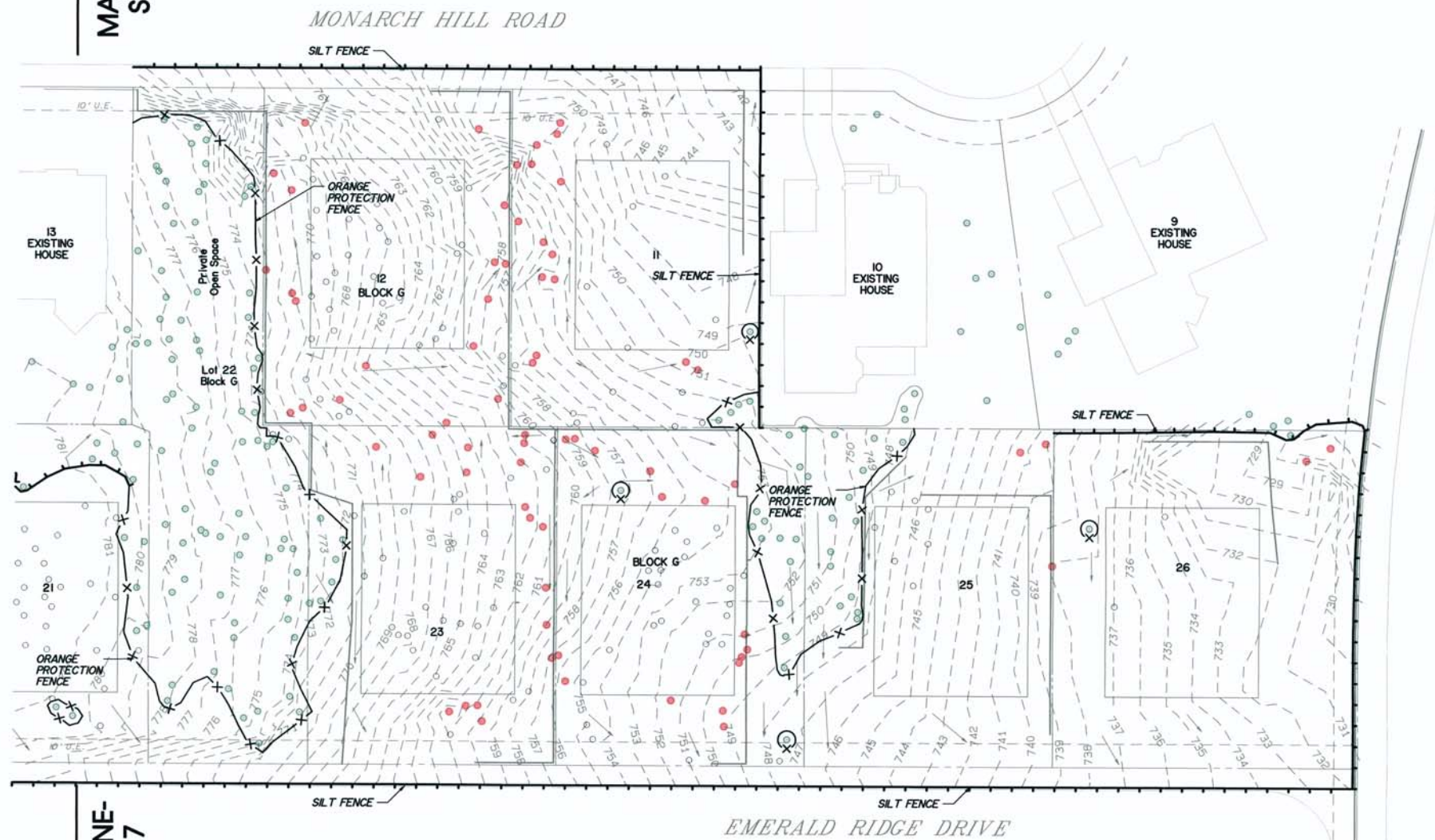
GOODWIN & MARSHALL  
CIVIL ENGINEERS-PLANNERS-SURVEYORS  
3405 MARSHALL DRIVE, GARYVILLE, TEXAS 76041

Job No.: 10185 Design: JSW  
Date: MAY, 2014 Draft: RE  
Scale: AS SHOWN Review:  
SHEET: 17 OF 21



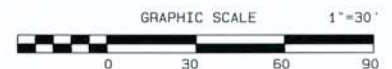
MATCHLINE-  
SHEET 17

MATCHLINE-  
SHEET 17



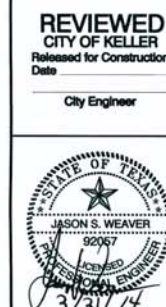
KEY MAP

LEGEND	
	ORANGE PROTECTION FENCE
	SILT FENCE



BENCH MARK ELEVATION: 726.38  
City of Keller TBM-22 iron rod with washer approximately 50 feet west of the centerline of US Hwy 377 and approximately 2075 feet south of the intersection of US Hwy 377 & Mt. Gilead Road.

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MARSHALL RIDGE  
PHASE 1 SOUTH  
CITY OF KELLER, TEXAS

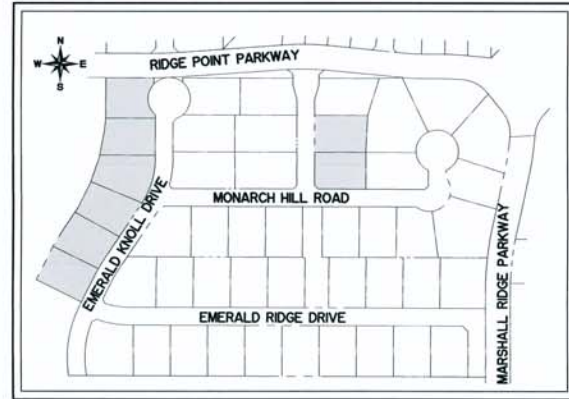
EROSION CONTROL & TREE PROTECTION PLAN

GOODWIN & MARSHALL  
CIVIL ENGINEERS-PLANNERS-SURVEYORS  
3005 HASTINGS DRIVE, GRANVILLE, TEXAS 76041

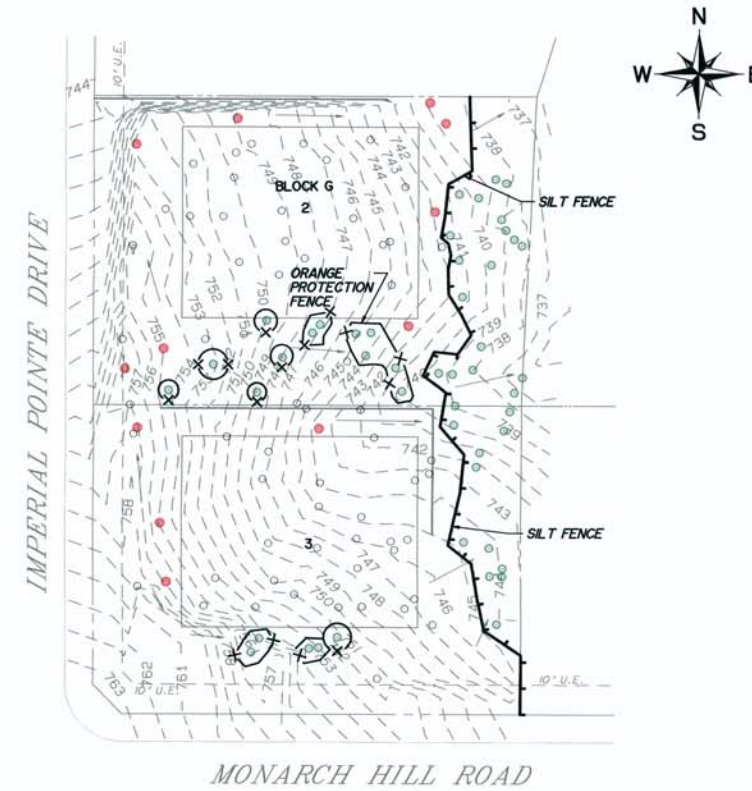
Job No. :	10185	Design :	JSW
Date :	MAY, 2014	Draft :	RE
Scale :	AS SHOWN	Review :	

SHEET : 18 OF 21



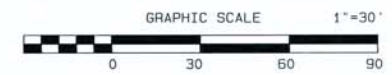


KEY MAP



LEGEND	
	ORANGE PROTECTION FENCE
	SILT FENCE

NOTE:  
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BENCH MARK ELEVATION: 726.38  
City of Keller TBM-22 iron rod with washer approximately 50 feet west of the centerline of US Hwy 377 and approximately 2075 feet south of the intersection of US Hwy 377 & M. Gilead Road.

REVIEWED  
CITY OF KELLER  
Released for Construction  
Date \_\_\_\_\_  
City Engineer \_\_\_\_\_

STATE OF TEXAS  
JASON S. WEAVER  
Professional Engineer  
3/31/14

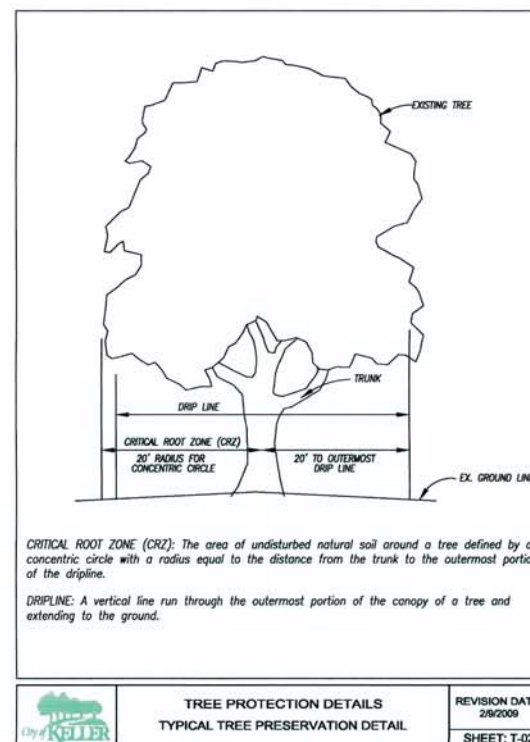
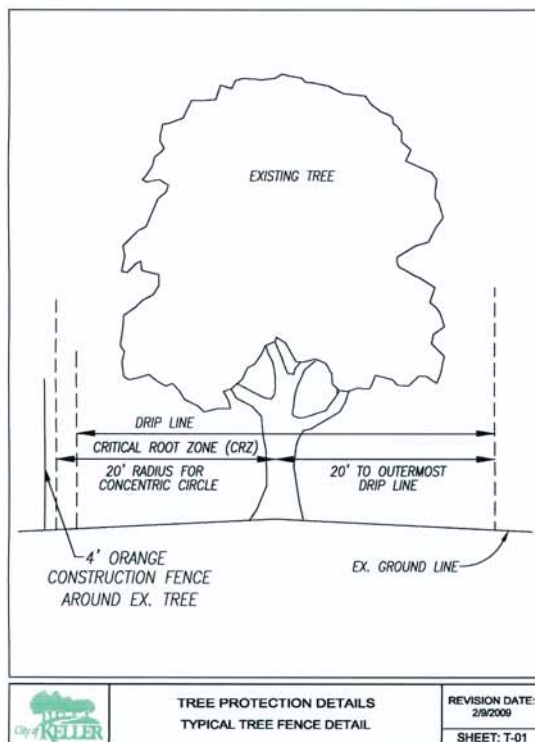
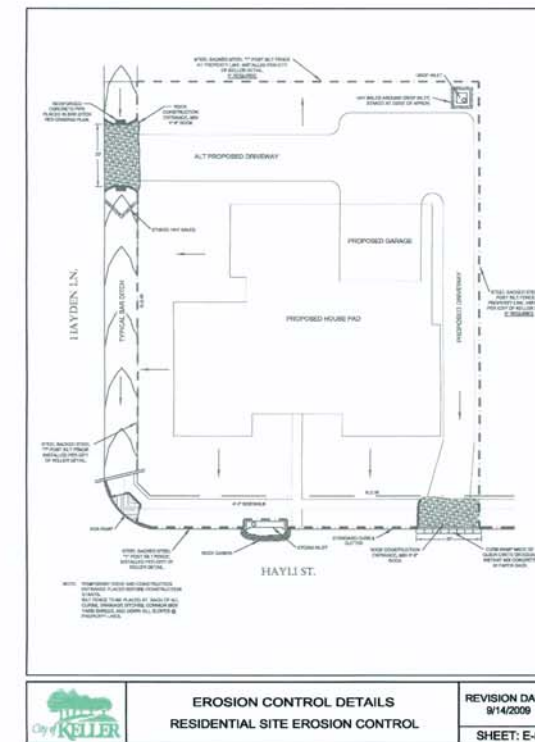
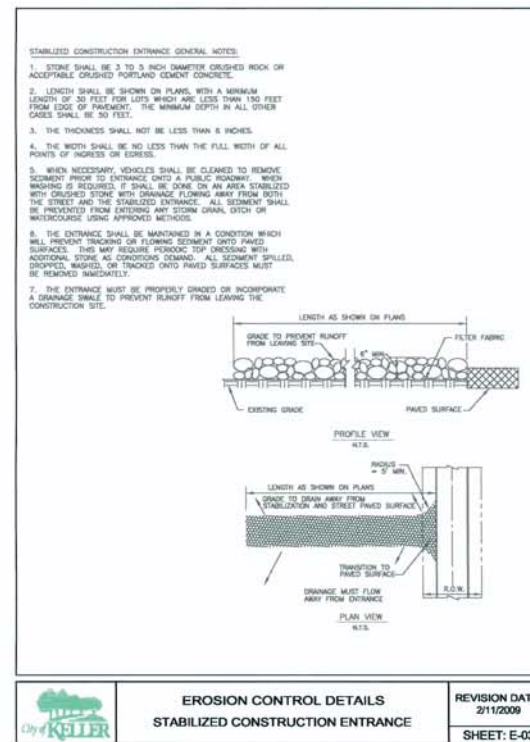
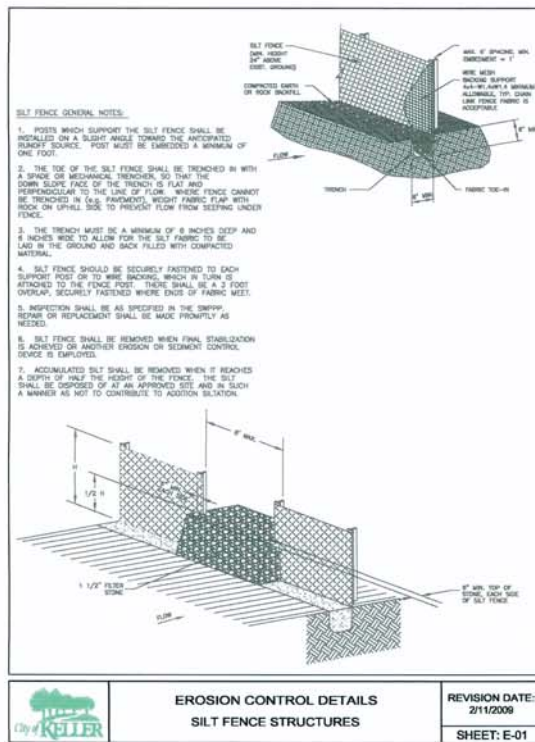
MARSHALL RIDGE  
PHASE 1 SOUTH  
CITY OF KELLER, TEXAS

EROSION CONTROL & TREE  
PROTECTION PLAN

GOODWIN & MARSHALL	Job No. : 10185	Design : JSW
CIVIL ENGINEERS-PLANNERS-SURVEYORS	Date : MAY, 2014	Draft : RE
2408 MARSHALL DRIVE, GARYVILLE, TEXAS 76041	Scale : AS SHOWN	Review : _____

SHEET: 19 OF 21





**BENCH MARK ELEVATION: 726.38**  
City of Keller TBM-22 Iron rod with washer approximately 50 feet west of the centerline of US Hwy 377 and approximately 2075 feet south of the intersection of US Hwy 377 & M. Gilead Road.

**REVIEWED**  
CITY OF KELLER  
Released for Construction  
Date: 3/31/14  
City Engineer: JASON S. WEAVER

**MARSHALL RIDGE**  
**PHASE 1 SOUTH**  
**CITY OF KELLER, TEXAS**

**EROSION CONTROL & TREE**  
**PROTECTION DETAILS**

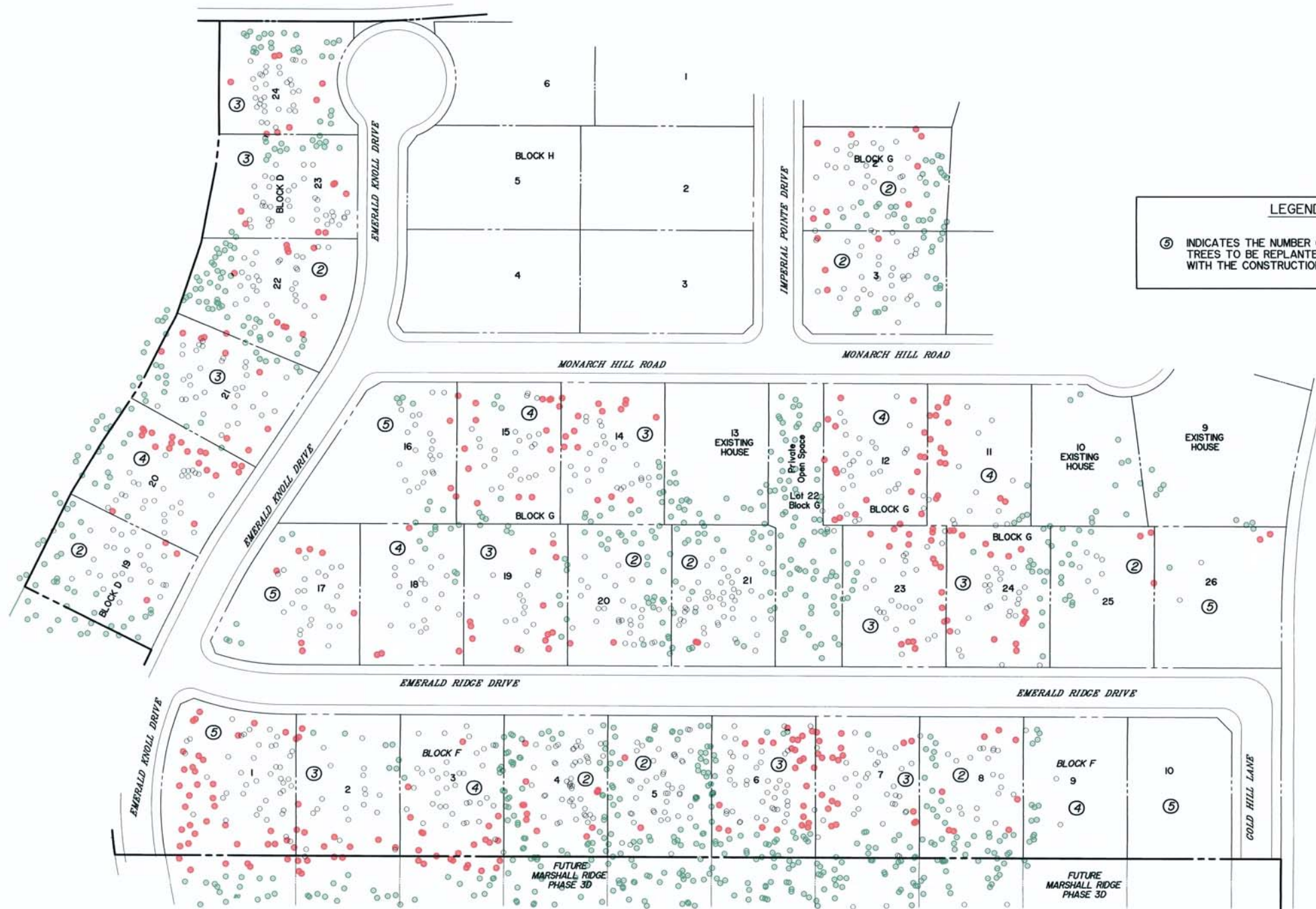
**GOODWIN & MARSHALL**  
CIVIL ENGINEERS-PLANNERS-SURVEYORS  
2406 MARSHALL DRIVE, CRAWFORD, TEXAS 75001

Job No.: 10185  
Date: MAY, 2014  
Scale: AS SHOWN

Design: JSW  
Draft: RE  
Review:

**SHEET: 20 OF 21**





**LEGEND**

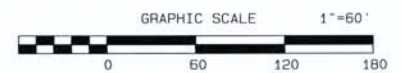
③ INDICATES THE NUMBER OF 3" DIAMETER TREES TO BE REPLANTED ON THE SPECIFIC LOT WITH THE CONSTRUCTION OF THE HOME.

## MARSHALL RIDGE, PH. 1 SOUTH TREE REPLACEMENT

LOT	BLOCK	NO. OF TREES TO BE REPLANTED	TOTAL NO. OF INCHES REPLANTED
19	D	2	6
20	D	4	12
21	D	3	9
22	D	2	6
23	D	3	9
24	D	3	9
1	F	5	15
2	F	4	12
3	F	4	12
4	F	4	12
5	F	4	12
6	F	4	12
7	F	4	12
8	F	4	12
9	F	4	12
10	F	4	12
2	G	2	6
3	G	2	6
11	G	4	12
12	G	4	12
13	G	4	12
14	G	4	12
15	G	4	12
16	G	5	15
17	G	5	15
18	G	4	12
19	G	4	12
20	G	4	12
21	G	3	9
22	G	3	9
23	G	3	9
24	G	3	9
25	G	3	9
26	G	5	15
TOTALS:		103	309

## MARSHALL RIDGE, PH. 1 SOUTH TREE MITIGATION SUMMARY

TREE REPLACEMENT OF 309" SHALL BE PROVIDED IN ADDITION TO A FEE PAYMENT INTO THE TREE REPLACEMENT BANK FUND @ \$100/INCH FOR THE REMAINING CALIPER INCHES TO BE MITIGATED. A TOTAL OF 3,101" IS REQUIRED FOR TREE REPLACEMENT. 309" SHALL BE SATISFIED WITH THE NEW TREES PER THE MITIGATION PLAN ON THIS SHEET. A FEE PAYMENT OF \$279,200 SHALL BE REQUIRED FOR THE REMAINING 2,792 INCHES TO BE REPLACED.



BENCH MARK ELEVATION: 726.38  
City of Keller TBM-22 iron rod with washer approximately 50 feet west of the centerline of US Hwy 377 and approximately 2075 feet south of the intersection of US Hwy 377 & Mt. Gilead Road.

## KELLER UDC SECTION 9.03 (G) LANDSCAPE REQUIREMENTS:

- 1) DUE TO THE PRESERVATION OF EXISTING TREES IN THE FRONT & SIDE YARDS, THE CONDITIONS OF SECTION 9.03 (G) HAVE BEEN FULFILLED FOR THE FOLLOWING LOTS: LOTS 15, 17, 20, 21, BLOCK G, LOTS 2-6, 8-9, BLOCK F, AND LOTS 19, 21-24, BLOCK D.
- 2) ONE 8" TREE IS PRESERVED IN THE FRONT YARD OF LOT 2, BLOCK G, AND TWO REPLACEMENT TREES FOR MITIGATION WILL BE PLANTED IN THE FRONT YARD TO SATISFY THE REQUIREMENTS OF SECTION 9.03 (G).
- 3) FIVE TREES HAVE BEEN PRESERVED ON THE SIDE YARD OF LOT 3, BLOCK G, AND TWO REPLACEMENT TREES FOR MITIGATION WILL BE PLANTED IN THE FRONT YARD TO SATISFY THE REQUIREMENTS OF SECTION 9.03 (G).
- 4) TWO OF THE INDICATED NUMBERS OF REPLACEMENT TREES FOR MITIGATION WILL BE PLANTED IN THE FRONT YARDS OF THE FOLLOWING LOTS TO SATISFY THE REQUIREMENTS OF SECTION 9.03 (G): LOTS 11-12, 14, 18, 23 & 25, BLOCK G, LOT 20, BLOCK F.
- 5) ONE TREE IN EXCESS OF THREE INCHES IS PRESERVED IN THE FRONT YARDS OF LOTS 19 & 24, BLOCK G, AND LOT 7, BLOCK F, AND A MINIMUM OF ONE REPLACEMENT TREE FOR MITIGATION WILL BE PLANTED IN THE FRONT YARD TO SATISFY SECTION 9.03 (G).
- 6) FOUR TREES ARE PRESERVED IN THE FRONT YARD OF LOT 16, BLOCK G, AND A MINIMUM OF TWO REPLACEMENT TREES FOR MITIGATION WILL BE PLANTED IN THE SIDE YARD TO SATISFY SECTION 9.03 (G).
- 7) A MINIMUM OF TWO REPLACEMENT TREES FOR MITIGATION WILL BE PLANTED IN THE FRONT AND SIDE YARDS OF LOTS 1 & 10, BLOCK F TO SATISFY SECTION 9.03 (G).

REVIEWED  
CITY OF KELLER  
Released for Construction  
Date  
City Engineer



5/5/14 - REVISED PER CITY COMMENTS

MARSHALL RIDGE  
PHASE 1 SOUTH  
CITY OF KELLER, TEXAS

MITIGATION PLAN

GOODWIN & MARSHALL  
CIVIL ENGINEERS-PLANNERS-SURVEYORS  
3000 MARSHALL DRIVE, GARYTOWN, TEXAS 76041

Job No.: 10185 Design: JMW  
Date: MAY, 2014 Draft: RE  
Scale: AS SHOWN Review:  
SHEET: 21 OF 21