

RESOLUTION 360

A RESOLUTION OF THE CITY COUNCIL OF  
CHESTERFIELD, MISSOURI APPROVING AMENDMENT TO  
A CERTAIN SETTLEMENT AND RELEASE

Dated, February 9, 2006

WHEREAS, the City of Chesterfield, Missouri and THF Realty, Inc. entered into a Settlement and Mutual Release dated February 9, 2006 ("Settlement Agreement"), in connection with the Chesterfield Valley Redevelopment Plan; and

WHEREAS, THF Realty, Inc. seeks an amendment to the Settlement Agreement with respect to scheduled improvements to RHL Drive as set forth in Exhibits D and E thereto; and

WHEREAS, City staff has reviewed and revised Exhibits D and E and recommends said amendment to the Settlement Agreement be approved;

THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CHESTERFIELD, MISSOURI, AS FOLLOWS:

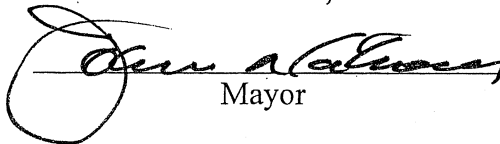
Section 1. The City Council hereby approves an amendment to the Settlement Agreement, with respect to RHL Drive specifically, Exhibits D and E as substantially set forth in a certain letter from Jeffrey P. Otto on behalf of THF Realty, Inc. to Michael Geisel, Director of Planning and Public Works, dated July 27, 2009 (the "Amendment").

Section 2. The City Administrator or his authorized agent is hereby authorized and directed to execute the Amendment in substantially the form received with such changes and modifications as authorized and approved by the City Administrator as are deemed necessary and desirable to fulfill the spirit and intent of this Resolution, the signatures of the officers of the City there upon being sufficient evidence of such authorization and approval.

Passed and approved this 17<sup>th</sup> day of August, 2009.

CITY OF CHESTERFIELD, MISSOURI

By:

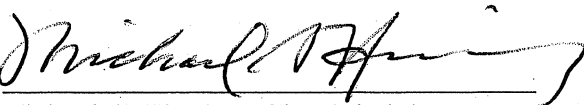
  
Mayor

ATTEST:

  
City Clerk

ACKNOWLEDGED AND AGREED TO  
THIS 21<sup>ST</sup> DAY OF AUGUST 2009.

City of Chesterfield, Missouri

By: 

Michael G. Herring, City Administrator

Cc: Mike Geisel  
Jim Mello  
Michael Staenberg

# ROADWAY IMPROVEMENT PLAN

## RHL DRIVE AT CHESTERFIELD AIRPORT ROAD (3/4 ACCESS) CHESTERFIELD, MISSOURI

SHEET NO.	1
Job No.	050-09-4
Date:	5/06/09
Scale:	N.T.S.
Drawn by:	GMW
Design by:	CMB
Approved by:	CMB
File Name:	PLN

REVISIONS	
06-02-09	
MSD 06-30-09	
07-02-09	

INDEX OF SHEETS	DESCRIPTION
1	COVER SHEET & GENERAL NOTES
2-3	TYPICAL SECTIONS
4	REMOVAL PLANS
5	PLAN SHEETS
6	PAVEMENT MARKING PLANS
7	STANDARDS

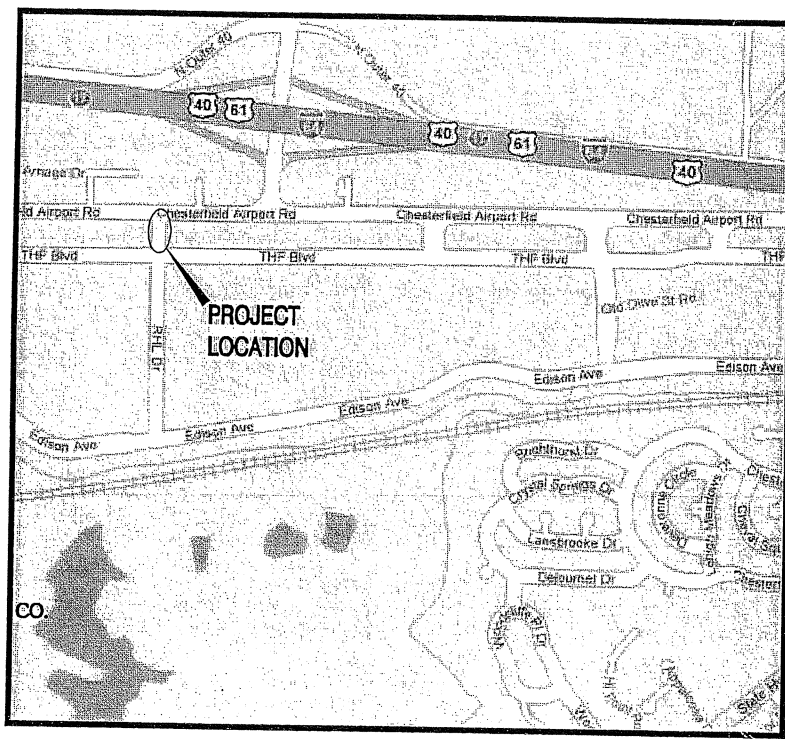
**PREPARED FOR:**  
JEFF OTTO  
THF REALTY, INC.  
2127 INNERBELT BUSINESS CENTER DR  
SUITE 200  
ST. LOUIS, MO 63114  
PHONE: 314-264-9404  
FAX: 314-429-0999

**CONTACT PERSON:**  
CHRISTOPHER BRAMMEIER, P.E.  
CRAWFORD, BUNTE, BRAMMEIER  
1830 CRAIG PARK COURT, STE. 209  
ST. LOUIS, MO 63146  
PHONE (314) 878-6644x20  
FAX (314) 878-5876  
cbrammeier@cbbtraffic.com

**SURVEYED BY:**  
RICK NORVELL  
VOLZ INC.  
10849 Indian Head Industrial Blvd.  
St. Louis, MO 63132  
314-426-6212 or 1-800-467-6212  
Fax: 314-890-1250  
rnorvell@volzinc.com

**BENCHMARK:**  
ST. LOUIS COUNTY BENCHMARK  
12-171 460.06 - "STANDARD  
ALUMINUM DISK" STAMPED SL-38,  
1990. DISK IS SET AT THE NORTH  
WEST CORNER OF CHESTERFIELD  
AIRPORT ROAD AND CAPRICE DRIVE.

**SITE BENCHMARK**  
456.53 - CROSS ON CURB ON THE  
SOUTH SIDE OF THF BOULEVARD, 46.6  
FEET SOUTH OF AND 67.9 FEET EAST  
OF SOUTHWEST CORNER OF LOT 102  
OF "RESUBDIVISION OF LOTS 1, 2, 3,  
4, 5 & 7 OF CHESTERFIELD  
COMMONS".



**LOCATION MAP**  
(not to scale)

**PROPOSED LEGEND**  
(SEE INDIVIDUAL PLAN SHEET FOR ADDITIONAL ITEMS)

EXISTING LEGEND	
A.I. Area Inlet	Light Standard
Area Inlet	M.H. Manhole
BOLL Bollard	-OU- Overhead Utilities
CO Clean Out	RCP Reinforced Concrete Pipe
C.I. Curb Inlet	ST Storm Sewer
Curb Inlet	TC Top of Curb
E.M. Electric Meter	T.P. Telephone Pedestal
E.T. Electric Transformer	T.S. Traffic signal
F.H. Fire Hydrant	TSCB Traffic Signal Control Box
Flared End	U.M.H. Utility Manhole
FL Flowline	U.P. Utility Pole
FP Flag Pole	Utility Pole
G.I. Grate Inlet	W.M. Water Meter
GM Gas Meter	Water Meter
GV Gas Valve	W.V. Water Valve
G.W. Guy Wire	Y.L. Yard Light
L.S. Light Standard	

REMOVAL LEGEND	
(TBR)	- TO BE REMOVED
(UIP)	- USE IN PLACE
PR.	- PROPOSED
EX.	- EXISTING
[Pattern]	- PAVEMENT REMOVAL
[Pattern]	- ISLAND REMOVAL
[Pattern]	- BIT. SURFACE REMOVAL 2"

PROPOSED LEGEND	
(TBR)	- TO BE REMOVED
(UIP)	- USE IN PLACE
CONC	- CONCRETE
TEMP	- TEMPORARY
PAVT	- PAVEMENT
PR.	- PROPOSED
EX.	- EXISTING
[Pattern]	- PR. PAVT
[Pattern]	- PR. RESURFACING
[Pattern]	- PR. PCC ITEM

PAVEMENT MARKING LEGEND	
SWL	- SOLID WHITE LINE
SYL	- SOLID YELLOW LINE
YSD	- YELLOW SKIP DASH
L&S	- LETTER & SYMBOLS
TEMP	- TEMPORARY
PAVT	- PAVEMENT
PR.	- PROPOSED
EX.	- EXISTING
TYP	- TYPICAL
C.E.	- COMMERCIAL ENTRANCE
#	- PR. STALL NUMBER
[Pattern]	- PR. PAVT
[Pattern]	- PR. RESURFACING 2"
[Pattern]	- PR. PCC ITEM

**GENERAL NOTES**

- 1) ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
- 2) DIMENSIONS ARE TO THE FACE OF CURB UNLESS STATED OTHERWISE ON THE PLANS.
- 3) ALL GRADED AREAS SHALL BE SODDED.
- 4) IF AN OPEN TRENCH CONDITION WILL REMAIN OPEN OVERNIGHT, "PAVEMENT EDGE TREATMENT" SHALL BE PROVIDED IN ACCORDANCE WITH ST. LOUIS COUNTY HIGHWAY & TRAFFIC STANDARDS.
- 5) THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR CONTROLLING ALL SILTATION AND EROSION OF THE PROJECT AREA. THE CONTRACTOR SHALL USE WHATEVER MEANS NECESSARY TO CONTROL EROSION AND SILTATION INCLUDING, BUT NOT LIMITED TO, SILTATION FABRIC FENCES. CONTROL SHALL COMMENCE WITH GRADING AND BE MAINTAINED THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY THE OWNER AND/OR CITY OF CHESTERFIELD/ST. LOUIS COUNTY HIGHWAY & TRAFFIC. THE CONTRACTOR'S RESPONSIBILITIES INCLUDE ALL DESIGN AND IMPLEMENTATION AS REQUIRED TO PREVENT EROSION AND THE DEPOSITING OF SILT. THE EROSION CONTROL ITEMS SHOWN ON THE PLANS ARE FOR ESTIMATING PURPOSES ONLY. THE OWNER AND/OR CITY OF CHESTERFIELD/ST. LOUIS COUNTY HIGHWAY & TRAFFIC MAY AT THEIR OPTION DIRECT THE CONTRACTOR IN HIS METHODS AS DEEMED FIT TO PROTECT PROPERTY AND IMPROVEMENTS. ANY DEPOSITING OF SILT OR MUD ON NEW OR EXISTING PAVEMENT SHALL BE REMOVED IMMEDIATELY. ANY DEPOSITING OF SILTS OR MUD IN NEW OR EXISTING STORM SEWERS OR SWALES SHALL BE REMOVED AFTER EACH RAIN AND AFFECTED AREAS CLEANED TO THE SATISFACTION OF THE OWNER AND/OR CITY OF CHESTERFIELD/ST. LOUIS COUNTY HIGHWAY & TRAFFIC.
- 6) ALL FILL PLACED UNDER PROPOSED STORM AND SANITARY SEWER, PROPOSED ROADS, AND/OR PAVED AREAS SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED AASHTO T-180 COMPACTION TEST OR 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO T-99. ALL FILL PLACED IN PROPOSED ROADS SHALL BE COMPACTED FROM THE BOTTOM OF THE FILL UP. ALL TESTS SHALL BE VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING AND BACK FILLING OPERATIONS. A COPY OF THE GRADING COMPACTION TEST RESULTS SHALL BE PROVIDED TO THE OWNER AND/OR CITY OF CHESTERFIELD/ST. LOUIS COUNTY HIGHWAY & TRAFFIC.
- 7) NO SLOPES SHALL BE STEEPER THAN 3 (HORIZONTAL) TO 1 (VERTICAL) EXCEPT AS NOTED ON THE PLANS.
- 8) ALL PAVING LOCATED WITHIN CITY OF CHESTERFIELD/ST. LOUIS COUNTY RIGHT OF WAY SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE ST. LOUIS COUNTY SPECIFICATIONS.
- 9) BRICK SHALL NOT BE USED IN THE CONSTRUCTION OF STORM SEWER STRUCTURES.
- 10) PROVIDE ADEQUATE OFF-STREET PARKING FOR CONSTRUCTION EMPLOYEES. PARKING ON NON-SURFACED AREAS SHALL BE PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEE VEHICLES IS TRACKED ONTO THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVEWAY CONDITIONS.
- 11) ANY DISTURBED OFF PROJECT PROPERTY (I.E. BUSHES, FENCES, MAILBOXES, ETC.) SHALL BE REPLACED, IN KIND.
- 12) THE THICKNESS OF THE BITUMINOUS MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- 13) THE OFFSETS TO ALL INLETS AND MANHOLES ARE TO THE CENTER OF THE DRAINAGE STRUCTURE. A CONCENTRIC DRAINAGE STRUCTURE WAS USED TO CALCULATE THIS DISTANCE.
- 14) ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY ATTEMPT TO CONSTRUCT ANY COMPONENT OF THE VARIOUS ROADWAY IMPROVEMENTS.

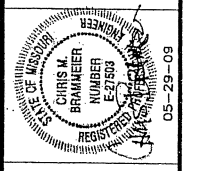
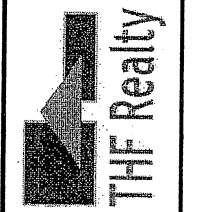
Call BEFORE you DIG  
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1-800-DIG-RITE  
MISSOURI ONE-CALL SYSTEM, INC.

**CITY OF CHESTERFIELD CONSTRUCTION AND GRADING NOTES**

1. NOTIFY THE CITY OF CHESTERFIELD DEPARTMENT OF PUBLIC WORKS & ST. LOUIS COUNTY HIGHWAY & TRAFFIC 48 HOURS PRIOR TO THE COMMENCEMENT OF GRADING AND/OR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. PARKING ON NON-SURFACED AREAS IS PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEE VEHICLES IS TRACKED ONTO THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVING CONDITIONS.
3. THE STREETS SURROUNDING THIS DEVELOPMENT AND ANY STREET USED FOR CONSTRUCTION ACCESS THERETO SHALL BE KEPT FREE FROM MUD AND CONSTRUCTION DEBRIS AND SHALL BE CLEANED THROUGHOUT THE DAY.
4. ALL FILLS PLACED UNDER PROPOSED STORM AND SANITARY SEWER LINES AND/OR PAVED AREAS, INCLUDING TRENCH BACKFILLS WITHIN AND OFF THE ROAD RIGHT-OF-WAY, SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY AS DETERMINED BY THE "MODIFIED AASHTO T-180 COMPACTION TEST" (ASTM D-1557) FOR THE ENTIRE DEPTH OF THE FILL. COMPACTED GRANULAR BACKFILL IS REQUIRED IN ALL TRENCH EXCAVATION WITHIN THE STREET RIGHT-OF-WAY AND UNDER ALL PAVED AREAS. ALL TESTS SHALL BE PERFORMED UNDER THE DIRECTION OF AND VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING AND BACKFILLING OPERATIONS.
5. SOFT SOILS FROM THE BOTTOM AND BANKS OF ANY EXISTING OR FORMER POND SITES OR TRIBUTARIES OR ANY SEDIMENT BASINS OR TRAPS SHALL NOT BE PLACED IN PROPOSED PUBLIC RIGHT-OF-WAY LOCATIONS OR IN ANY STORM SEWER LOCATION.
6. ALL TRASH AND DEBRIS ON-SITE, EITHER EXISTING OR FROM CONSTRUCTION, MUST BE REMOVED AND PROPERLY DISPOSED OF OFF-SITE.
7. ALL EXCAVATIONS, GRADING OR FILLING SHALL HAVE A FINISHED GRADE NOT TO EXCEED A 3:1 SLOPE (33%), UNLESS SPECIFICALLY APPROVED OTHERWISE.
8. NO EXCAVATION SHALL BE MADE SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PROPERTY OF ANY PUBLIC OR PRIVATE STREET WITHOUT SUPPORTING AND PROTECTING SUCH PUBLIC OR PRIVATE STREET OR PROPERTY FROM SETTLING, CRACKING OR OTHER DAMAGE.
9. ALL DISTURBED AREA WITHIN THE CITY OF CHESTERFIELD & ST. LOUIS COUNTY ROW SHALL BE SODDED.

MSD# P-0028703-00

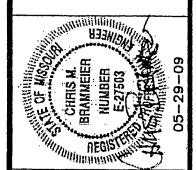
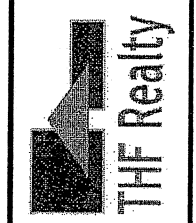
**NOT APPROVED FOR CONSTRUCTION**  
DATE 6/02/09



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Fax: 314-878-5876 E-Mail: cbb@cbbtraffic.com

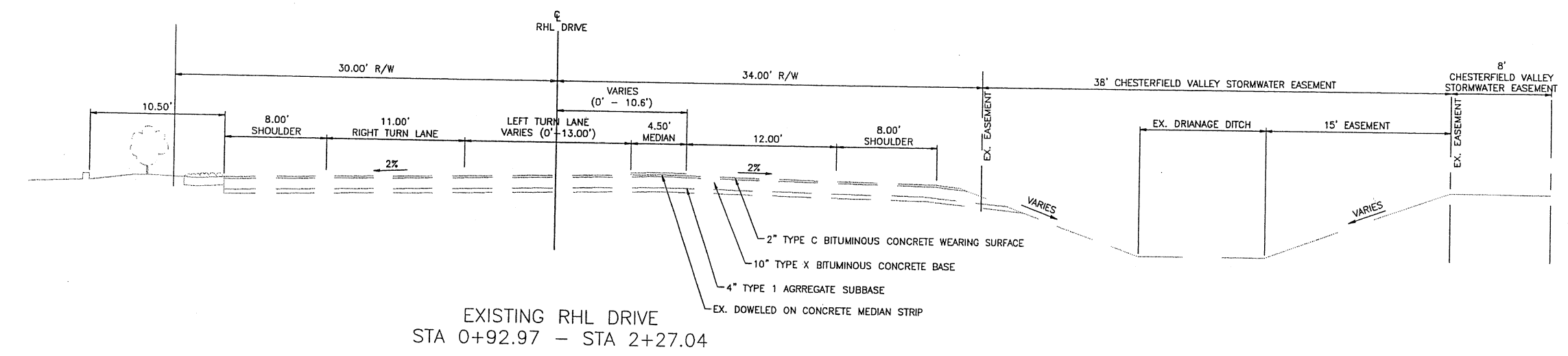
RHL DRIVE (3/4 ACCESS)  
COVER SHEET  
RHL DRIVE  
© CHESTERFIELD AIRPORT ROAD  
CHESTERFIELD, MISSOURI

REVISIONS	DATE	DESCRIPTION
06-02-09		
MSD 06-30-09		
07-02-09		

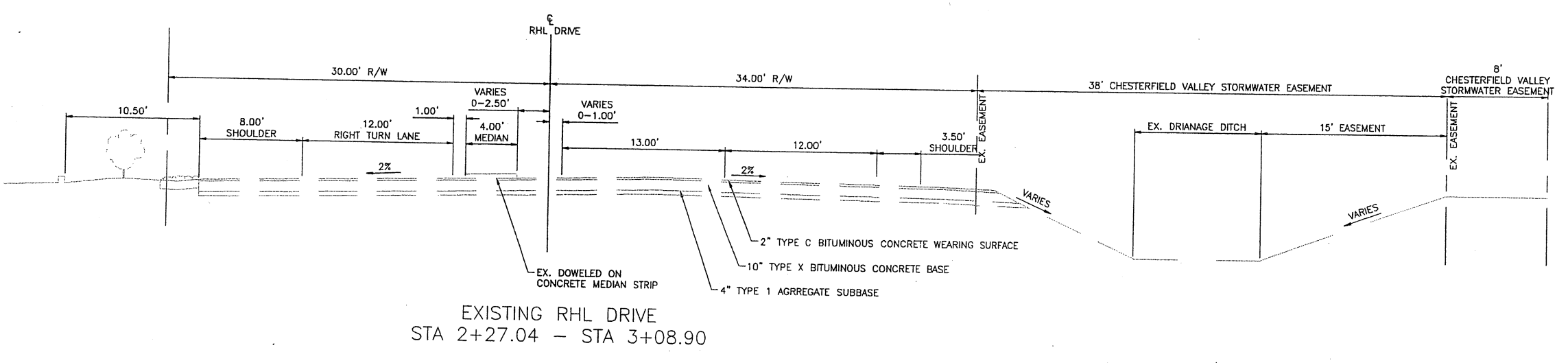


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RHL DRIVE (3/4 ACCESS)  
 TYP SECTIONS  
 RHL DRIVE  
 @ CHESTERFIELD AIRPORT ROAD  
 CHESTERFIELD, MISSOURI



EXISTING RHL DRIVE  
 STA 0+92.97 - STA 2+27.04

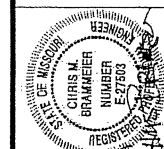
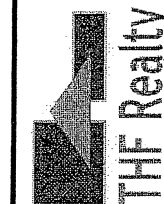


EXISTING RHL DRIVE  
 STA 2+27.04 - STA 3+08.90

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 FOR CONSTRUCTION  
 DATE 6/02/09

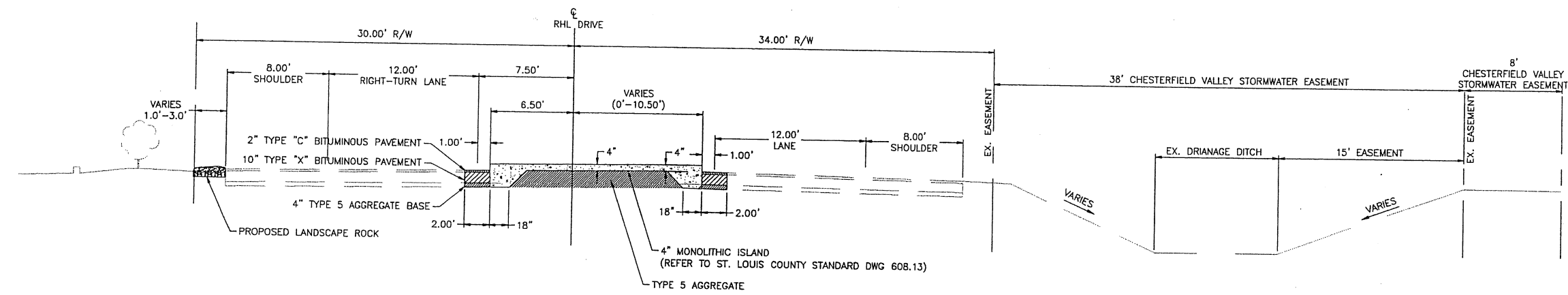
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	MSD 06-30-09
	07-02-09

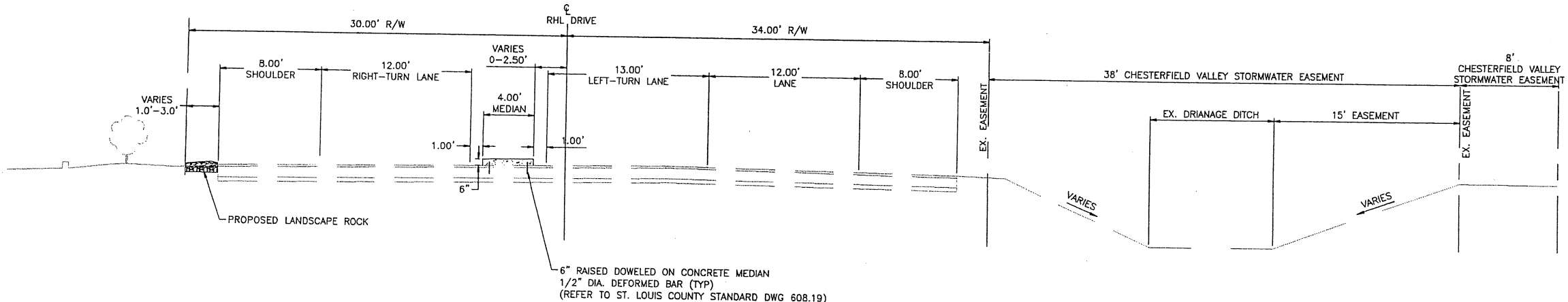


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RHL DRIVE (3/4 ACCESS)  
TYP SECTIONS  
RHL DRIVE  
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CHESTERFIELD, MISSOURI



PROPOSED RHL DRIVE (PUBLIC)  
STA 0+33.00 - STA 0+86.00

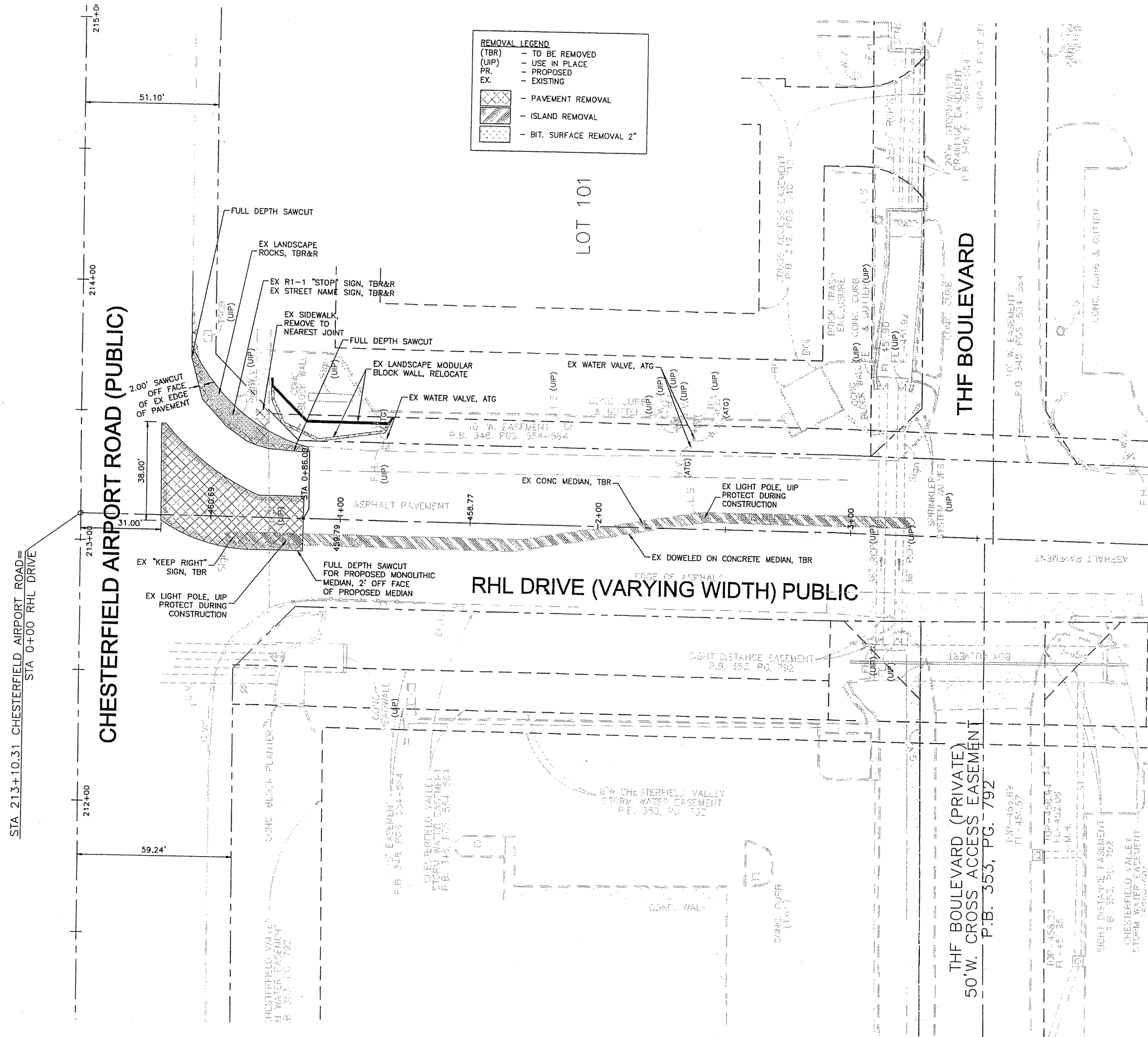


PROPOSED RHL DRIVE (PUBLIC)  
STA 0+90 - STA 3+08.90

- NOTE
1. TRANSITION MEDIAN HEIGHT FROM 4" TO 6" BETWEEN STATIONS 0+86 TO 0+90.
  2. EXISTING MODULAR BLOCK WALL TO BE RELOCATED BETWEEN STATIONS 0+72.3 TO 1+20. REFER TO PLAN SHEET.

MSD# P-0028703-00

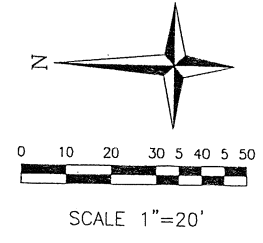
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FOR CONSTRUCTION  
DATE 6/02/09



**REMOVAL LEGEND**

- (TBR) - TO BE REMOVED
- (UIP) - USE IN PLACE
- PR. - PROPOSED
- EX. - EXISTING

- [Hatched Box] - PAVEMENT REMOVAL
- [Dotted Box] - ISLAND REMOVAL
- [Cross-hatched Box] - BIT. SURFACE REMOVAL 2"

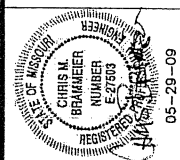
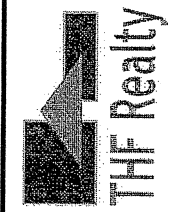


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Job No. 050-09-4  
Date: 5/06/09  
Scale: 1"=20'  
Drawn by: GMW  
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Approved by: CMB  
File Name: PLN

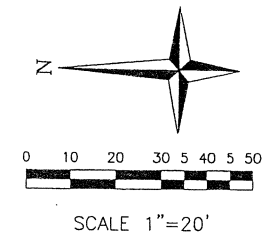
REVISIONS	DATE	DESCRIPTION
06-02-09		
MSD 06-30-09		
07-02-09		



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RHL DRIVE (3/4 ACCESS)  
REMOVAL PLAN  
RHL DRIVE  
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Job No. 050-09-4  
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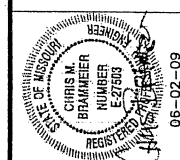
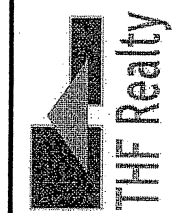


NOTES:

- ALL PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED TO ST. LOUIS COUNTY STANDARDS
- ALL GRADING AND DRAINAGE TO BE IN CONFORMANCE WITH ST. LOUIS COUNTY AND MSD STANDARDS
- STORM WATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.
- PRIOR TO SPECIAL USE PERMIT ISSUANCE BY THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC, A SPECIAL CASH ESCROW OR A SPECIAL ESCROW SUPPORTED BY AN IRREVOCABLE LETTER OF CREDIT, MUST BE ESTABLISHED WITH THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC TO GUARANTEE COMPLETION OF THE REQUIRED ROADWAY IMPROVEMENTS.

REVISIONS

08-02-09	
MSD 06-30-09	
07-02-09	



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RHL DRIVE (3/4 ACCESS)  
 PLAN SHEET  
 RHL DRIVE  
 @ CHESTERFIELD AIRPORT ROAD  
 CHESTERFIELD, MISSOURI

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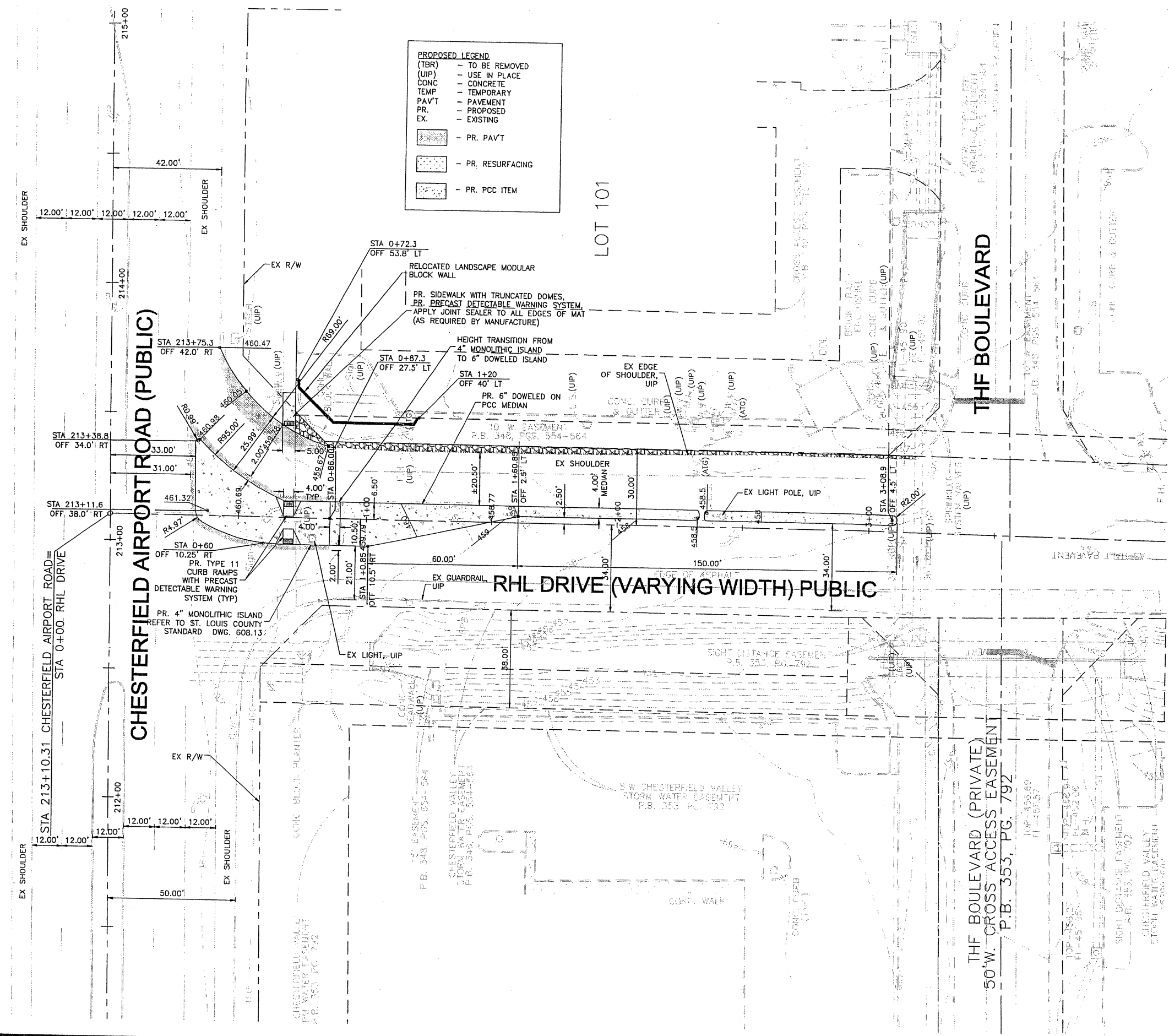
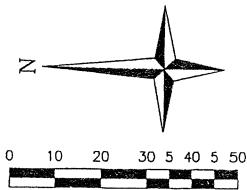


Exhibit A  
 Mr. Michael Geisel letter dated 7/27/09

Job No. 050-09-4  
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 Design by: CMB  
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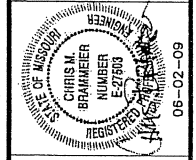
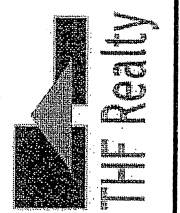


NOTES

- 1) ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND MISSOURI STANDARD PLANS FOR HIGHWAY CONSTRUCTION.
- 2) PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 3) EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE PROPOSED STRIPING SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
- 4) STOPBARS AND SYMBOLS SHALL BE THERMOPLASTIC. ALL LANE LINES SHALL BE WATERBORNE PAINT STRIPING.
- 5) ALL ARROWS, WORDS AND SYMBOLS SHALL BE WHITE UNLESS OTHERWISE SPECIFIED.
- 6) REFER TO PLAN SHEETS FOR ADDITIONAL DIMENSIONS. REFER TO TRAFFIC SIGNAL SHEETS FOR EXACT LOCATION OF STOPBARS.

REVISIONS

06-02-09	MSD 06-30-09
07-02-09	

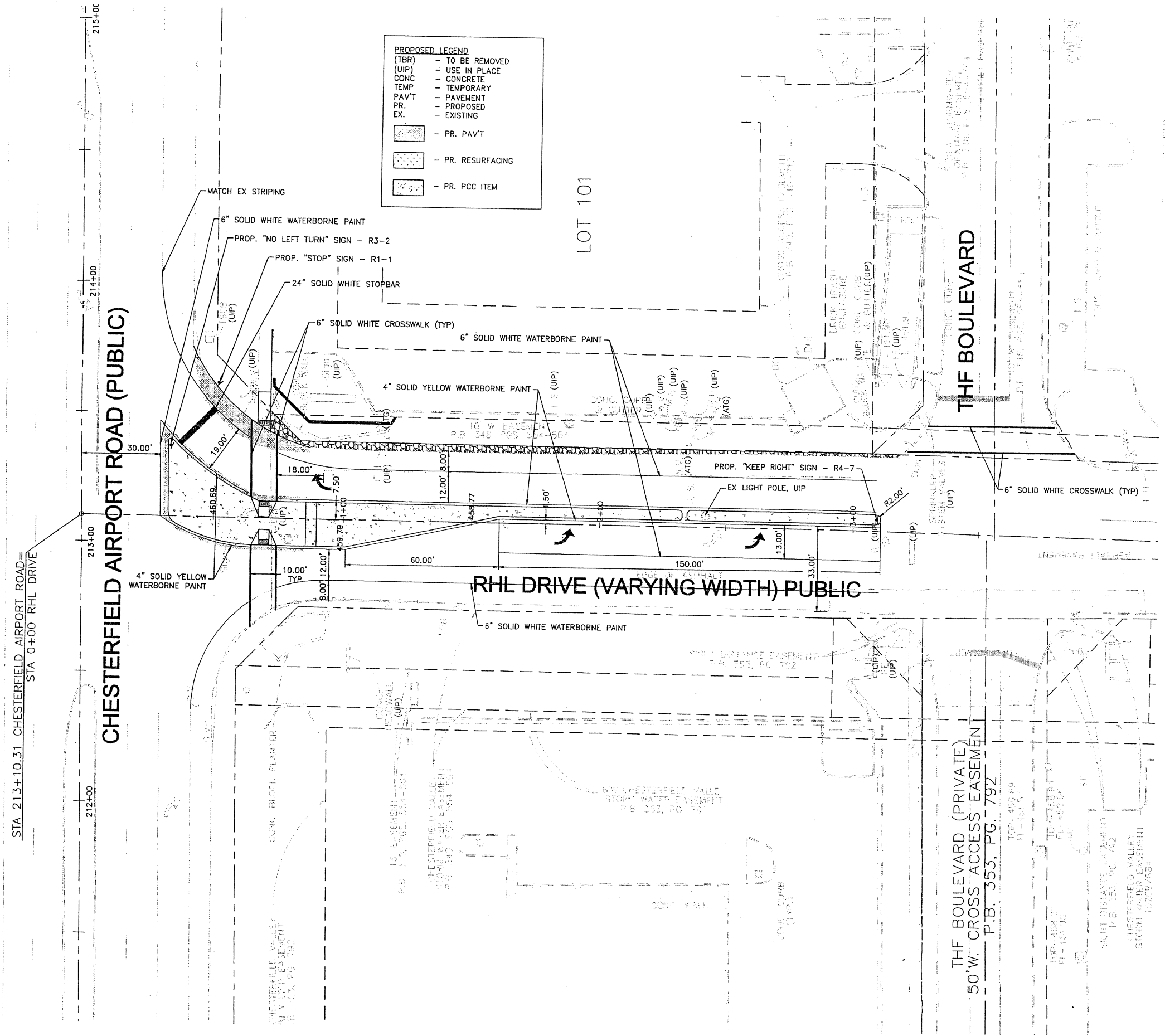


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RHL DRIVE (3/4 ACCESS)  
 PAVEMENT MARKINGS  
 RHL DRIVE  
 @ CHESTERFIELD AIRPORT ROAD  
 CHESTERFIELD, MISSOURI

MSD# P-0028703-00

**NOT APPROVED**  
 FOR CONSTRUCTION  
 DATE 6/02/09



**PROPOSED LEGEND**

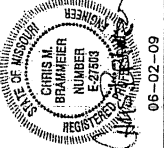
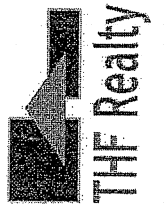
- (TBR) - TO BE REMOVED
- (UIP) - USE IN PLACE
- CONC - CONCRETE
- TEMP - TEMPORARY
- PAVT - PAVEMENT
- PR. - PROPOSED
- EX. - EXISTING

- [Pattern] - PR. PAVT
- [Pattern] - PR. RESURFACING
- [Pattern] - PR. PCC ITEM



Job No. 050-09-4  
 Date: 5/06/09  
 Scale: N.T.S.  
 Drawn by: GMW  
 Design by: CMB  
 Approved by: CMB  
 File Name: PLN

REVISIONS  
 06-02-09  
 MSD 06-30-09  
 07-02-09



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RHL DRIVE (3/4 ACCESS)  
 RHL DRIVE STANDARDS  
 RHL DRIVE  
 @ CHESTERFIELD AIRPORT ROAD  
 CHESTERFIELD, MISSOURI

ST. LOUIS COUNTY PROJ.

NEW REVISIONS  
 2-28-08 1-11-08 6-19-08 2-2-09 7-31-07

**GENERAL NOTES**

- Do not scale drawing, follow dimensions.
- Length of the bars shall equal the thickness of pavement plus the height of curb less 3".
- All necessary pavement markings shall be as required by St. Louis County. For details, refer to "Guidelines for Pavement Markings and Lane Striping", Std. Dwg. C802.10.
- Transverse joint spacing for the concrete median shall be the same as the adjacent concrete pavement or on 20 ft. intervals with bituminous pavement.

**P.C. CONCRETE PAVEMENT**

**SUPERPAVE ASPHALTIC CONCRETE OR BITUMINOUS CONCRETE PAVEMENT**

NOTE: Additional dowel bars may be required at island nose.

SAINT LOUIS COUNTY  
 DEPARTMENT OF HIGHWAYS AND TRAFFIC  
 CLAYTON, MISSOURI  
 PAVEMENT CONSTRUCTION DETAILS  
**6" RAISED DOWELED-ON CONCRETE MEDIAN**  
 REVISION DATE: July 31, 2007  
 DRAWING C808.19

ST. LOUIS COUNTY PROJ.

NEW REVISIONS  
 7-24-08 1-1-04 6-8-05 1-21-07 10-22-08

**TYPICAL SECTION (SECTION A-A)**

**DETECTABLE WARNING PLACEMENT (MIDBLOCK CURB RAMP)**

**TRUNCATED DOME DETAIL**

**SQUARE PATTERN, PARALLEL ALIGNMENT**

**GENERAL NOTES**

- Do not scale drawings, follow dimensions.
- The system shall be designed to meet accessibility guidelines for the Americans with Disabilities Act for Detectable Warning (Paragraph 4.29) and Landing Ramps (Paragraph 4.7).
- The system shall be a cast in place product approved by Saint Louis County prior to usage. Follow manufacturer's installation instructions.
- Slip resistance shall be tested in accordance with ASTM C 1028-06, standard test method for determining the static coefficient of friction of ceramic tile and other like surfaces by horizontal dynamometer pull-meter test. Minimum static coefficient of friction shall be .50 wet and .70 dry.
- Color and texture to be approved by Saint Louis County Department of Highways and Traffic. (Standard Brick Red)

SAINT LOUIS COUNTY  
 DEPARTMENT OF HIGHWAYS AND TRAFFIC  
 CLAYTON, MISSOURI  
 PAVEMENT CONSTRUCTION DETAILS  
**DETECTABLE WARNING SYSTEMS FOR NEW CONSTRUCTION**  
 REVISION DATE: October 21, 2008  
 DRAWING C808.21

ST. LOUIS COUNTY PROJ.

NEW REVISIONS  
 6-19-08 3-2-08 7-31-07

**SECTION A - A (TYPE 11 CURB RAMP)**

**SECTION B - B (P.C. CONCRETE PAVEMENT)**

**SECTION B - B (SUPERPAVE ASPHALTIC CONCRETE OR BITUMINOUS CONCRETE PAVEMENT)**

**GENERAL NOTES**

- Do not scale drawing, follow dimensions.
- Sidewalk and sidewalk curb ramps shall be constructed in accordance with these details and the current approved "Americans with Disabilities Act Guidelines" (ADAAG).
- Where curb ramp meets pavement, bulbouts will not be permitted.
- "T" refers to the thickness of pavement.
- When the lane usage on an approach to an intersection is subject to change, a temporary portion or a channelization island may be required.
- Permanent channelization islands constructed in bituminous concrete pavement shall be installed prior to placement of Type "X" bituminous concrete base. Temporary portions of channelization islands (if required) shall be concrete and installed without dowel bars adjacent to permanent islands on top of Type "X" bituminous concrete wearing surface.
- Permanent channelization islands constructed in concrete pavement shall be installed after placement of concrete pavement which has been previously blocked out. Temporary portions of channelization islands (if required) shall be concrete and installed without dowel bars adjacent to permanent islands on top of concrete pavement.

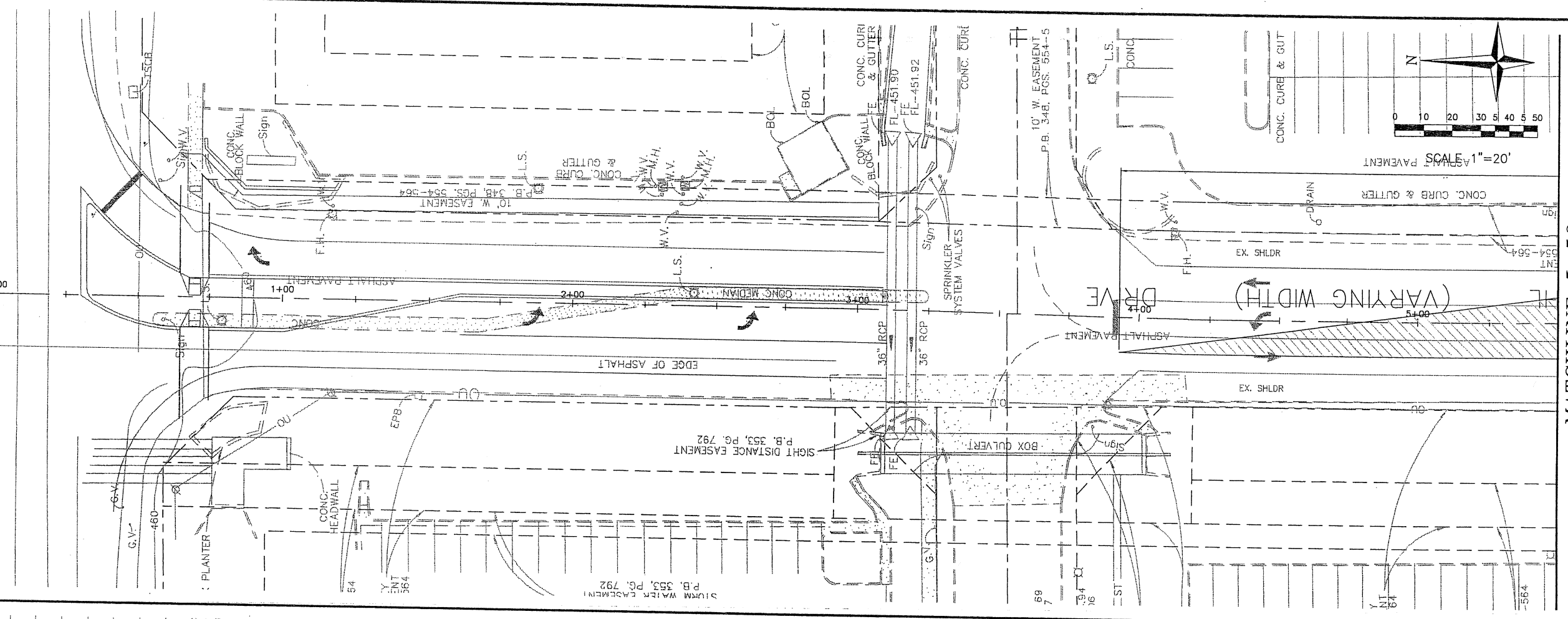
TYPE 11 CURB RAMP IN 4" CHANNELIZATION ISLAND	
GRADE ACROSS ISLAND (%)	MIN. LENGTH OF RAMP SLOPE (L.F.)
NEGATIVE (-) VALUES	4
1 TO +1	6
+1.01 TO +2	8
+2.01 TO +3	7
+3.01 TO +4	8
GREATER THAN +4	10

NOTE: Positive (+) "S" - Proceeding away from curb and up a grade.  
 Negative (-) "S" - Proceeding away from curb and down a grade.

SAINT LOUIS COUNTY  
 DEPARTMENT OF HIGHWAYS AND TRAFFIC  
 CLAYTON, MISSOURI  
 INTERSECTION CHANNELIZATION DETAILS  
**4" RAISED CONCRETE CHANNELIZATION ISLAND WITH CURB RAMP (TYPE 11)**  
 REVISION DATE: July 31, 2007  
 DRAWING C808.13

**NOT APPROVED FOR CONSTRUCTION**  
 DATE 6/02/09

STERFIELD AIRPORT (VARYING WIDTH) ROAD



MATCHLINE 5+50

SHEET NO. 1

Job No. 060-09

Date: 7/1/09

Scale: 1"=20'

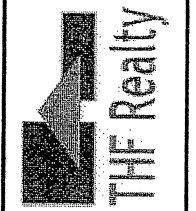
Drawn by: BEC

Design by: BEC

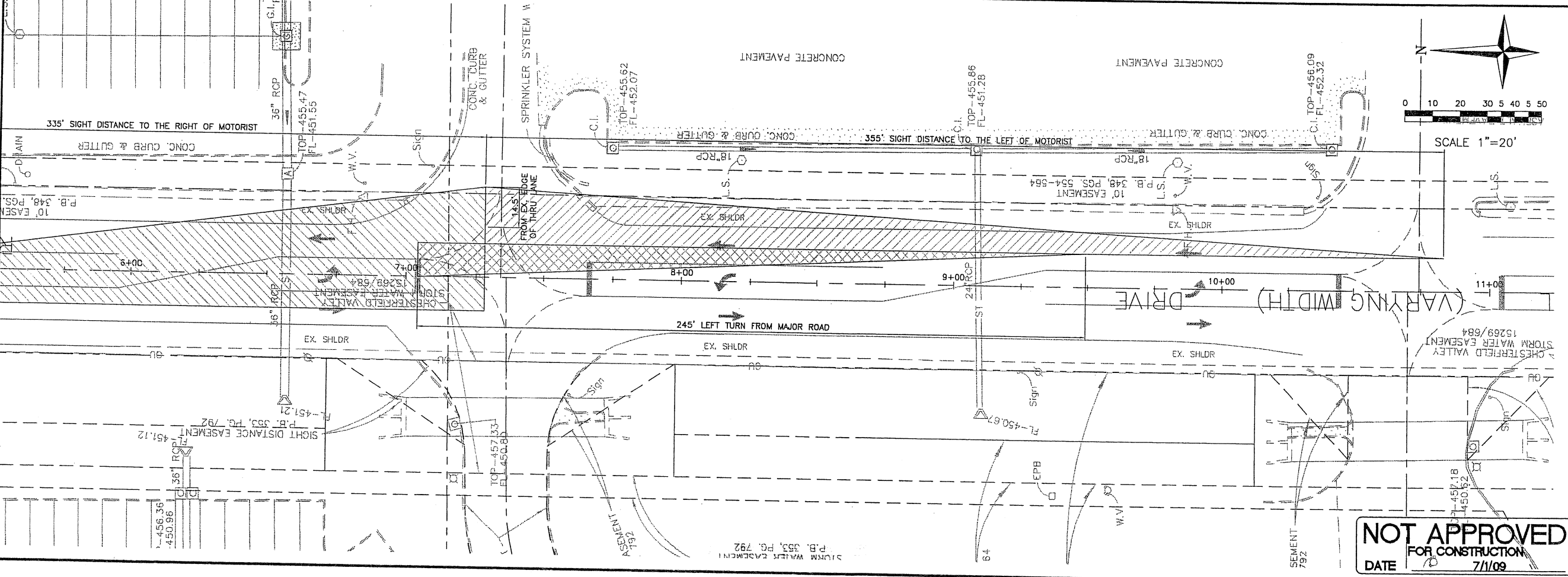
Approved by: CMB

File Name: PLN

REVISIONS



MATCHLINE 5+50



MATCHLINE 5+50

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Traffic and Transportation Engineers

St. Louis, Missouri/Glen Carbon, Illinois  
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RHL SIDEWALK  
SIGHT TRIANGLE ENT. 1

RHL DRIVE  
© CHESTERFIELD COMMONS  
CHESTERFIELD, MISSOURI

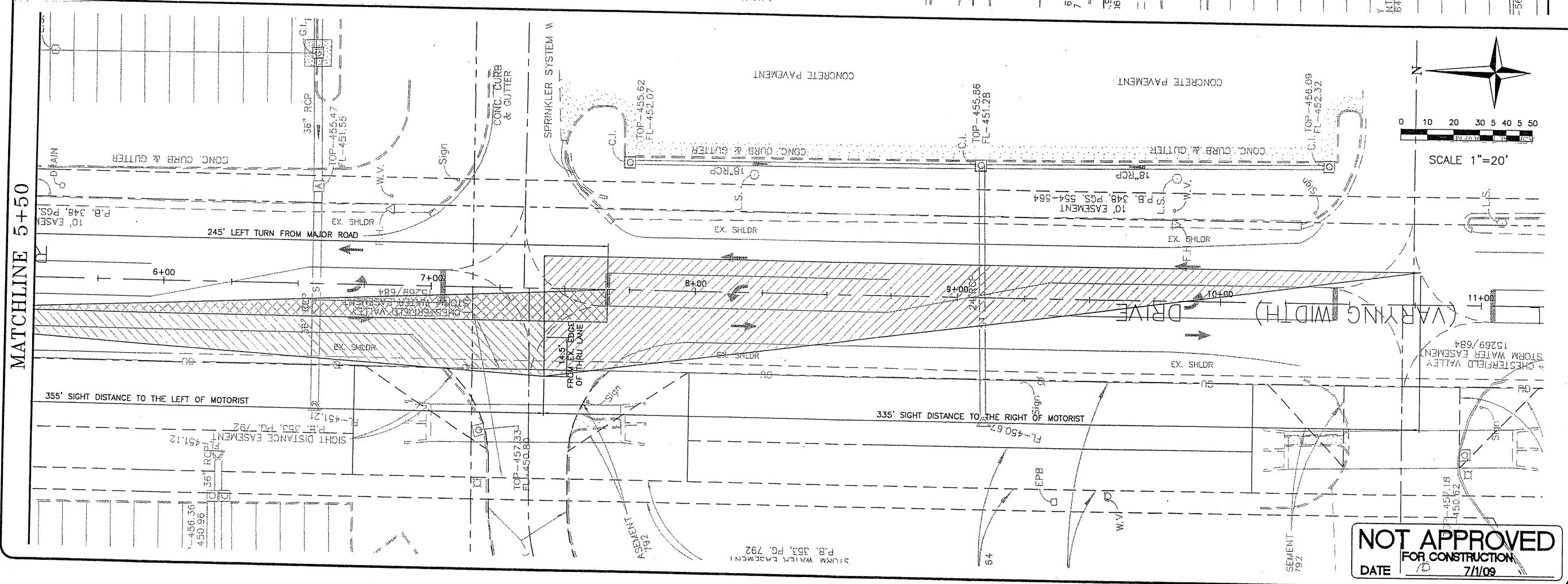
**NOT APPROVED**  
FOR CONSTRUCTION

DATE 7/1/09

Exhibit A

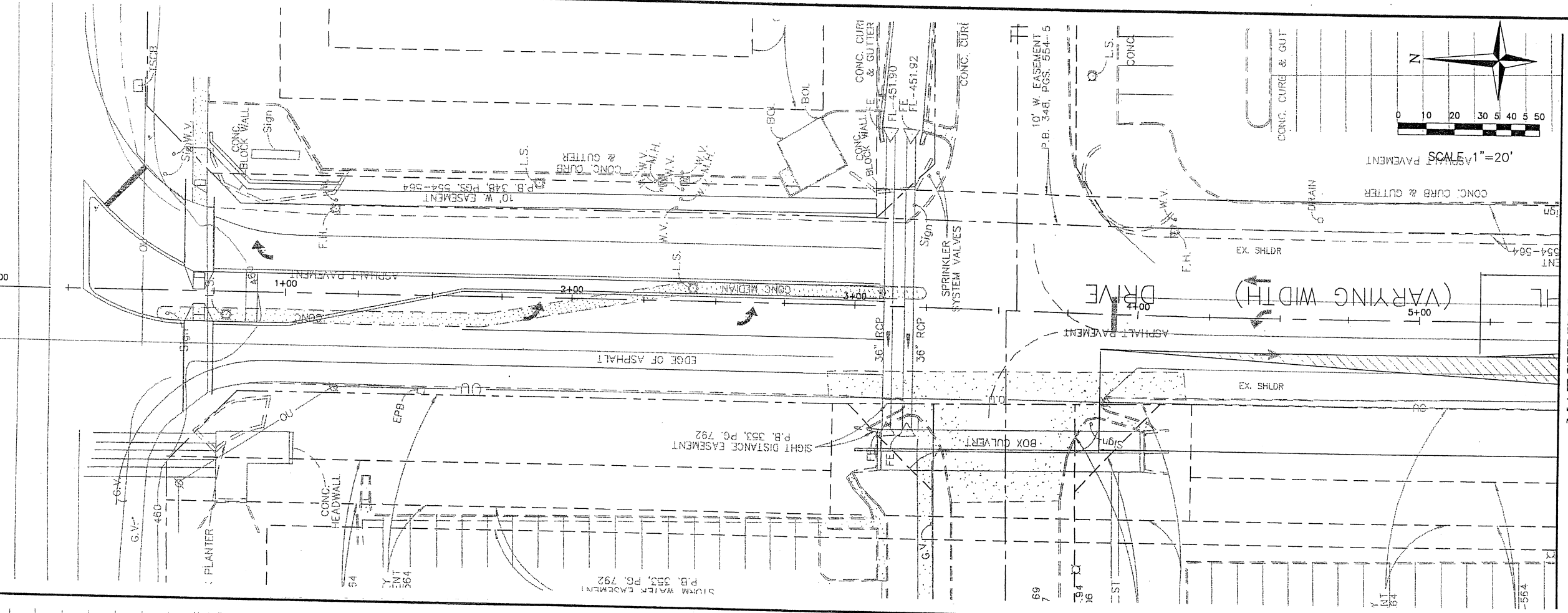
Mr. Michael Geisel letter dated 7/27/09

MATCHLINE 5+50



**NOT APPROVED**  
FOR CONSTRUCTION  
DATE 7/1/09

STERFIELD AIRPORT (VARYING WIDTH) ROF

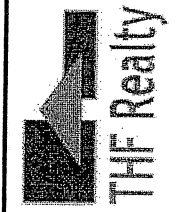


MATCHLINE 5+50

RHL SIDEWALK  
SIGHT TRIANGLE ENT. 2  
RHL DRIVE  
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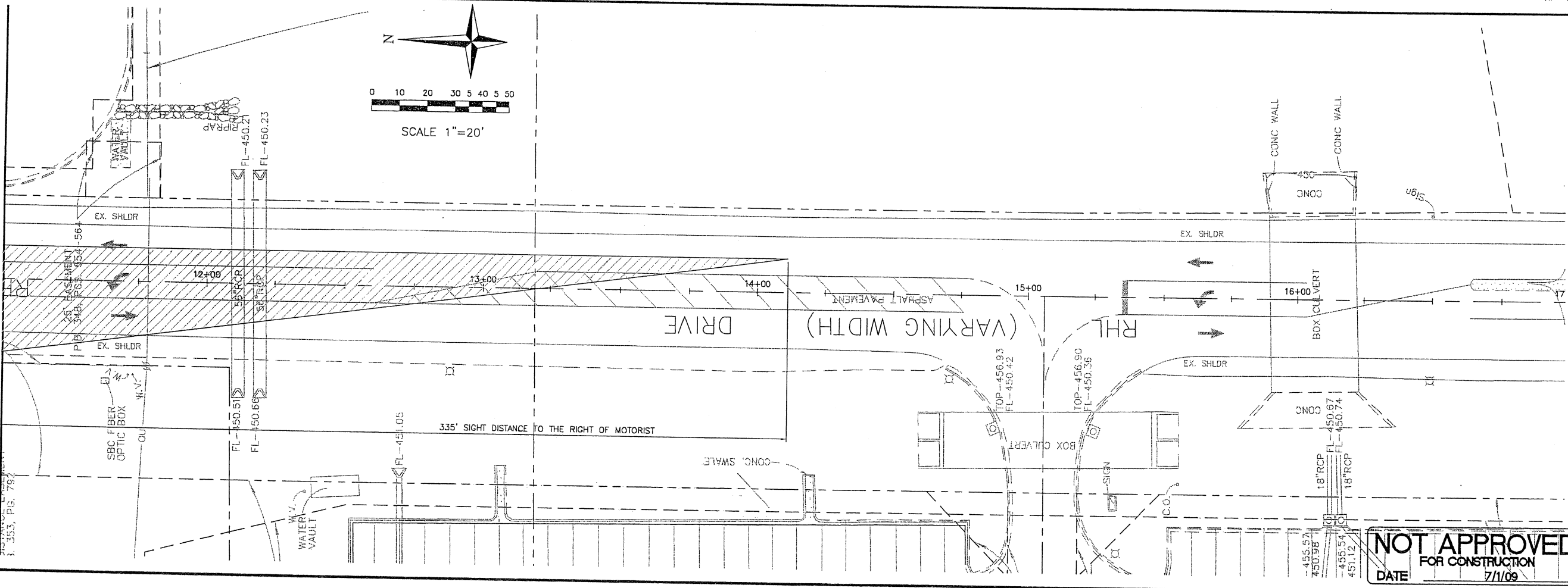
REVISIONS



SHEET NO.  
**2**  
Job No. 060-09  
Date: 7/1/09  
Scale: 1"=20'  
Drawn by: BEC  
Design by: BEC  
Approved by: CMB  
File Name: PLN

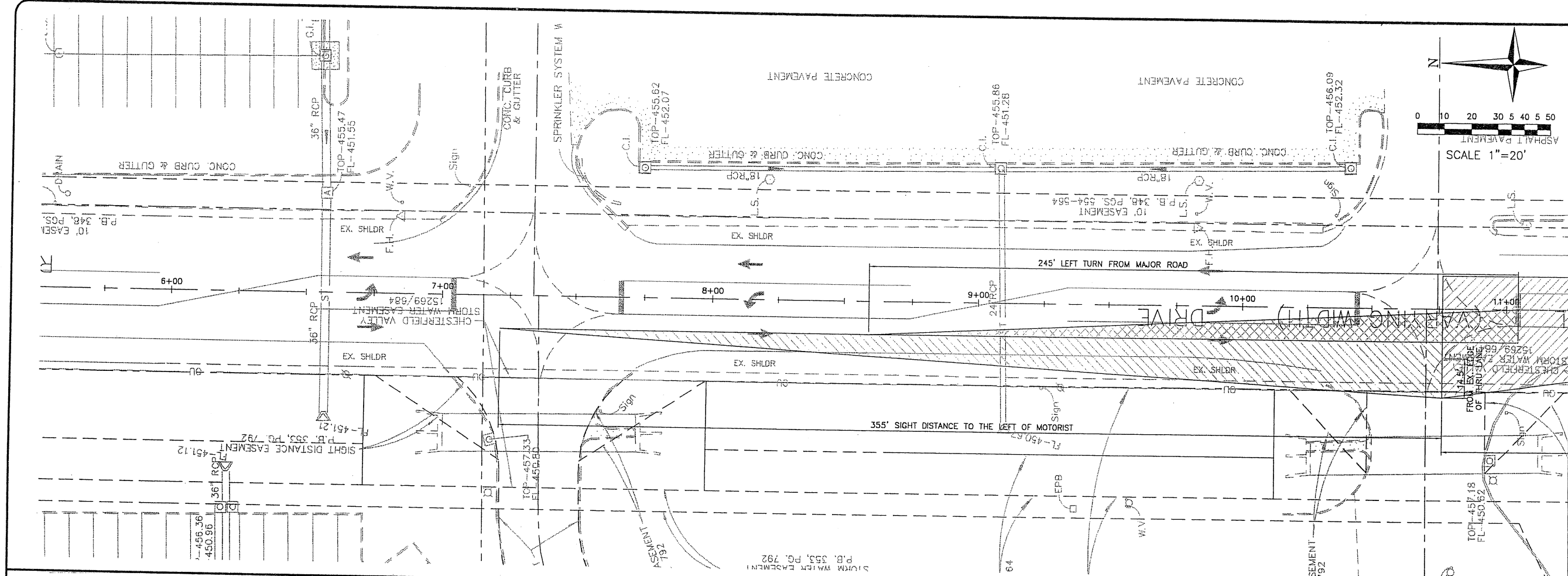
Exhibit A  
Mr. Michael G... dated 7/27/09

MATCHLINE 11+25



**NOT APPROVED**  
 FOR CONSTRUCTION  
 DATE 7/1/09

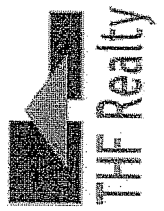
Exhibit A  
 Mr. Michael Caisel letter dated 7/27/00



MATCHLINE 11+25

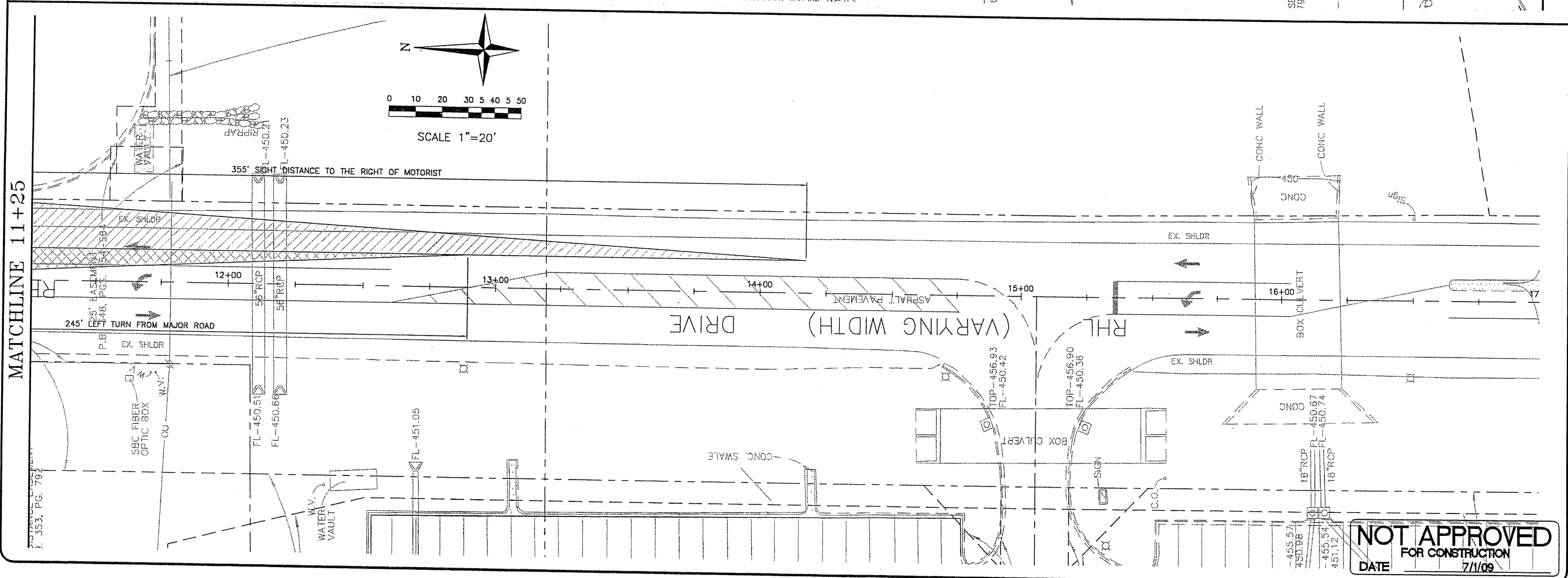
SHEET NO.  
**3**  
 Job No. 060-09  
 Date: 7/1/09  
 Scale: 1"=20'  
 Drawn by: BEC  
 Design by: BEC  
 Approved by: CMB  
 File Name: PLN

REVISIONS

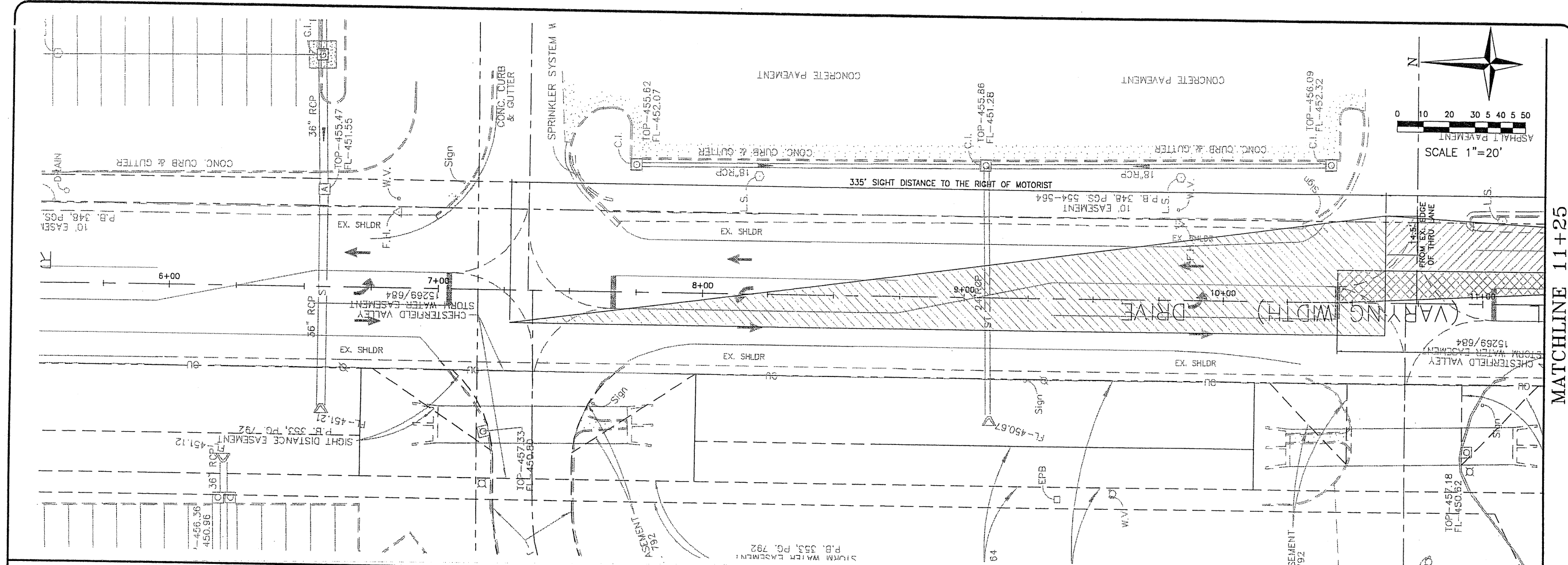


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**NOT APPROVED**  
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 DATE 7/1/09

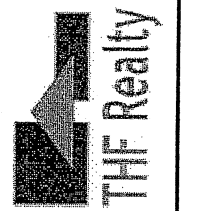


MATCHLINE 11+25

MATCHLINE 11+25

SHEET NO.  
 4  
 Job No. 060-09  
 Date: 7/1/09  
 Scale: 1"=20'  
 Drawn by: BEC  
 Design by: BEC  
 Approved by: CMB  
 File Name: PLN

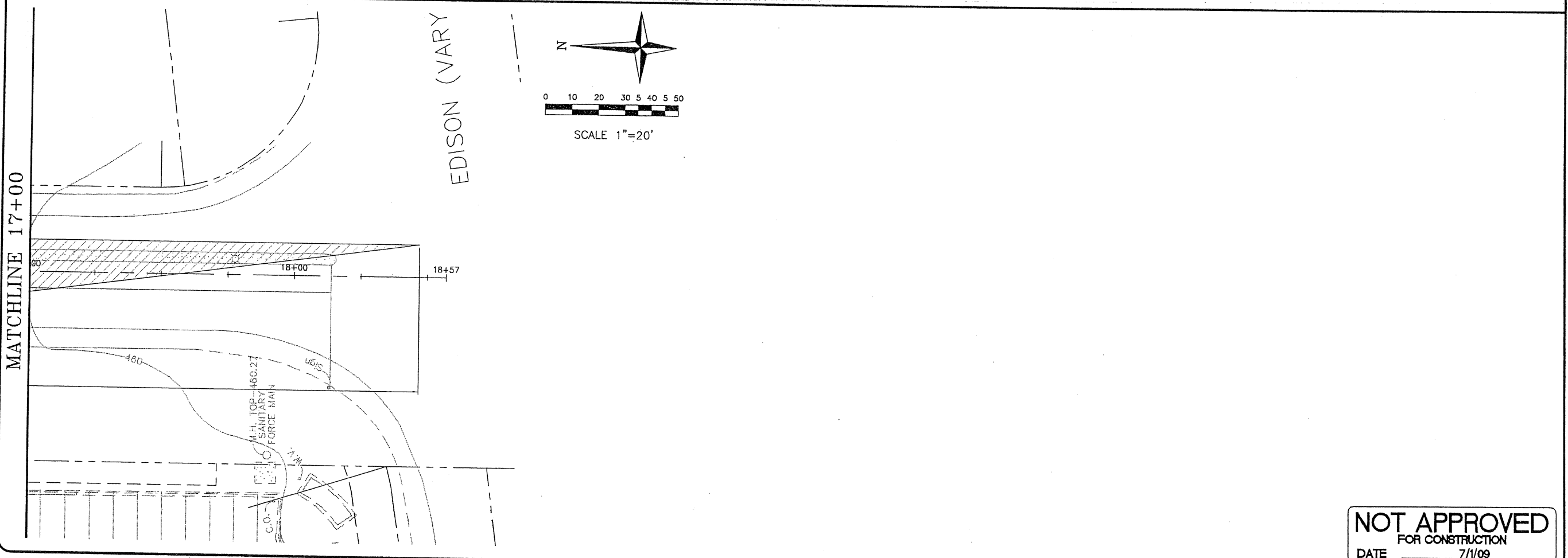
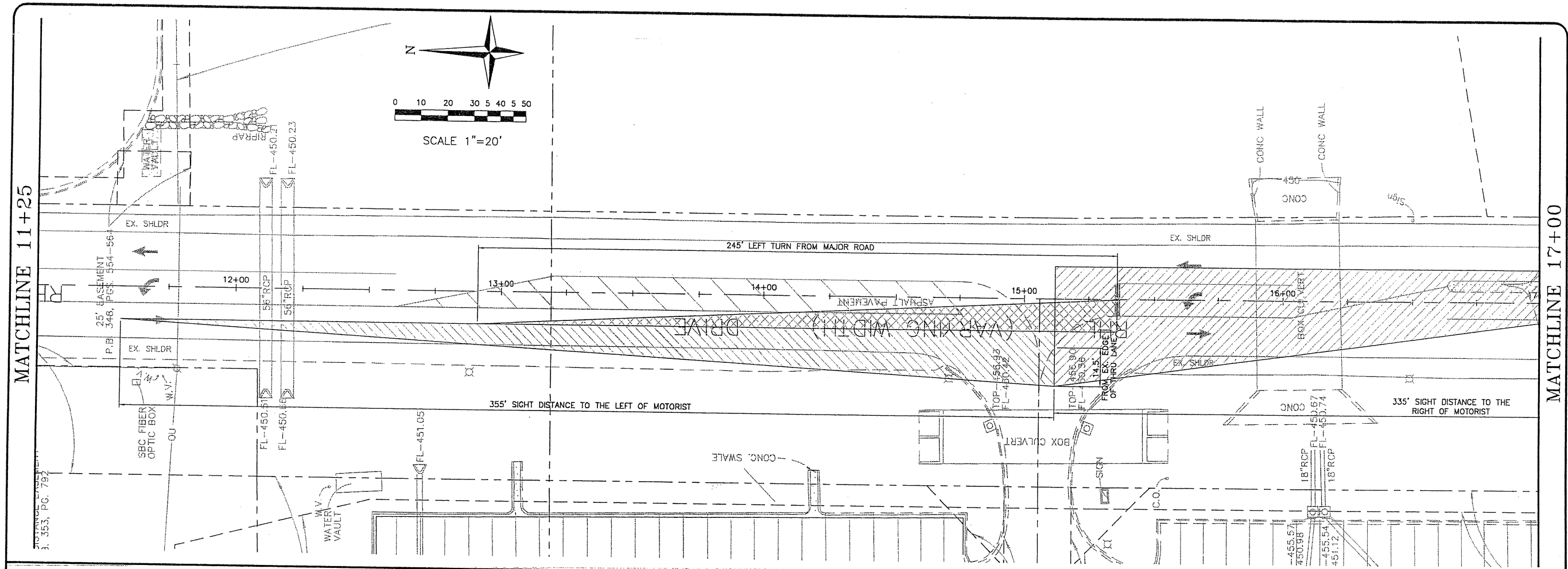
REVISIONS

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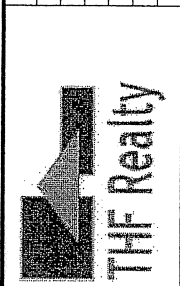
Exhibit A  
 Mr. Michael Coisel letter dated 7/27/09



SHEET NO.  
**5**

Job No. 050-09  
Date: 7/1/09  
Scale: 1"=20'  
Drawn by: BEC  
Design by: BEC  
Approved by: CMB  
File Name: PLN

REVISIONS



3. 353, PG. 787

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FOR CONSTRUCTION  
DATE 7/1/09

Exhibit A  
Mr. Michael Geisel letter dated 7/27/09