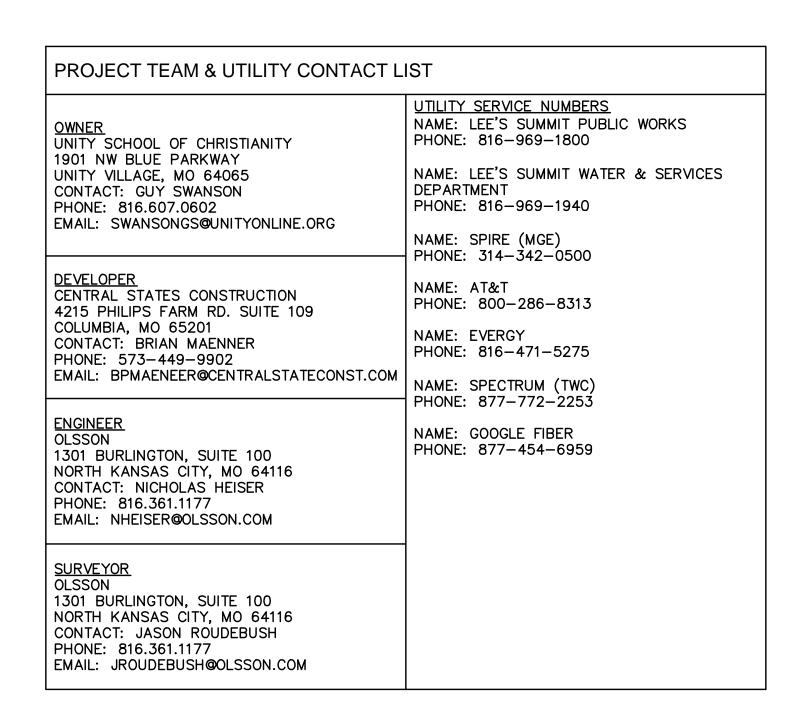


S30, T48N, R31W N.T.S.

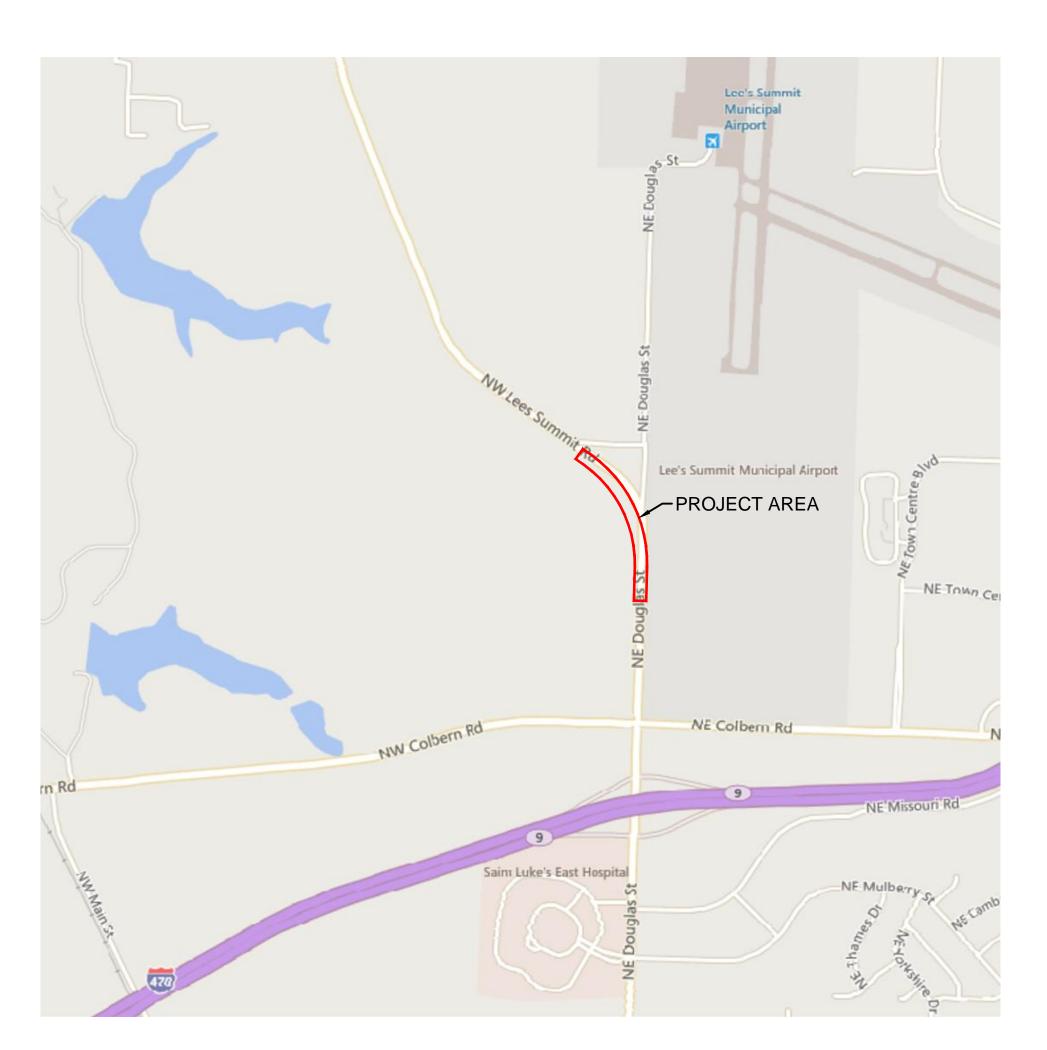
NW LEE'S SUMMIT ROAD & NE DOUGLAS STREET PUBLIC STREET IMPROVEMENT PLANS FOR ARIA APARTMENTS-PHASE 1

SECTION 30, TOWNSHIP 48N, RANGE 31W IN LEE'S SUMMIT, JACKSON COUNTY, MO



NOT FOR CONSTRUCTION
REVIEWED FOR CONSTRUCTION





PROPERTY DESCRIPTION:

AS PROVIDED BY STEWART TITLE GUARANTY COMPANY:

TRACT OF LAND IN THE NORTHEAST QUARTER OF SECTION 30 TOWNSHIP 48 NORTH, RANGE 31 WEST OF THE 5TH PRINCIPAL MERIDIAN IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI BEING BOUNDED AND DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF SAID NORTHEAST QUARTER SECTION; THENCE SOUTH 01 DEGREES 37 MINUTES 50 SECONDS WEST, ON THE WEST LINE OF SAID QUARTER SECTION, 853.75 FEET TO A POINT ON THE SOUTHEAST LOT LINE OF LOT 1, LEE'S SUMMIT ROAD PUMP STATION, A SUBDIVISION RECORDED IN BOOK I 51 AT PAGE 90 IN THE JACKSON COUNTY RECORDER OF DEEDS OFFICE; THENCE NORTH 50 DEGREES 41 MINUTES 15 SECONDS EAST, ON SAID SOUTHEAST LOT LINE, 59.22 FEET; TO THE POINT OF BEGINNING OF THE TRACT OF LAND TO BE HEREIN DESCRIBED; THENCE CONTINUING NORTH 50 DEGREES 41 MINUTES 15 SECONDS EAST ALONG SAID LINE, 116.89 FEET; THENCE NORTH 44 DEGREES 49 MINUTES 51 SECONDS EAST, 792.38 FEET TO A POINT ON THE WESTERLY RIGHT-OF-WAY LINE OF NW LEE'S SUMMIT ROAD AS ESTABLISHED BY DOCUMENT NUMBER 2015E0017982 IN THE JACKSON COUNTY RECORDER OF DEEDS OFFICE; THENCE ON SAID WESTERLY RIGHT-OF-WAY LINE, SOUTH 54 DEGREES 34 MINUTES 12 SECONDS EAST, 95.69 FEET; THENCE SOUTHEASTERLY ALONG A CURVE TO THE RIGHT BEING TANGENT TO THE LAST DESCRIBED COURSE WITH A RADIUS OF 1,142.00 FEET, A CENTRAL ANGLE OF 56 DEGREES 01 MINUTES 43 SECONDS AND AN ARC DISTANCE OF 1,116.74 FEET; THENCE SOUTH 01 DEGREES 27 MINUTES 31 SECONDS WEST, 322.27 FEET; THENCE LEAVING SAID RIGHT-OF-WAY LINE, NORTH 88 DEGREES 32 MINUTES 29 SECONDS WEST, 375.74 FEET; THENCE NORTH 01 DEGREES 27 MINUTES 27 SECONDS EAST, 62.94 FEET; THENCE SOUTH 90 DEGREES 00 MINUTES 00 SECONDS WEST, 195.68 FEET; THENCE NORTH 45 DEGREES 00 MINUTES 00 SECONDS WEST, 889.18 FEET TO THE POINT OF BEGINNING, SUBJECT TO THAT PART, IF ANY, IN STREETS, ROADWAYS, HIGHWAYS OR OTHER PUBLIC RIGHT-OF-WAYS.

BENCHMARK

LOCATED NEAR SE CORNER OF COLBERN RD. & DOUGLAS ST. INTERSECTION. N: 1012195.53 E: 282382.89 EL: 982.46

EL: 932.31

LOCATED ON LIGHTPOLE BASE AT NE CORNER OF LEE'S SUMMIT RD. & DOUGLAS ST INTERSECTION. N: 1014699.72 E: 2823025.86

N: 1014159.31 E: 2822030.75 EL: 908.88

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GENERAL NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE PLANS IN THEIR POSSESSION ARE THE MOST CURRENT VERSION ISSUED, ARE FULLY COORDINATED WITH ALL SUBCONTRACTORS. AND PRESENT ON SITE AT ALL TIMES. CURRENT PLANS PREPARED BY OLSSON MAY BE OBTAINED AT THE DIRECTION OF OLSSON'S CLIENT. DIRECT REQUESTS TO OLSSON MAY REQUIRE ADDITIONAL AUTHORIZATIONS, AGREEMENTS, AND/OR FEES. PLEASE CONTACT THE ENGINEER FOR INFORMATION.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEVIATIONS FROM THESE PLANS UNLESS WRITTEN APPROVAL FROM ENGINEER, OWNER, AND
- 3. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
- 4. ALL ESTIMATES OF QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING QUANTITIES AND ITEMS OF WORK.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK SHOWN IN THE PLANS.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, PAYING ALL FEES, AND FOR OTHERWISE COMPLYING WITH ALL APPLICABLE REGULATIONS GOVERNING THE WORK.
- 7. THE CONTRACTOR SHALL NOT ENGAGE IN ACTIVITIES THAT MAY ENCROACH ON WATERS OF THE U.S., INCLUDING WETLANDS, UNTIL ANY NECESSARY PERMITS MAY BE OBTAINED. THE CONTRACTOR SHALL REVIEW AND COMPLY WITH ALL CONDITIONS DESCRIBED IN THE PERMIT.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, THE SAFETY OF ALL PERSONS INCLUDING VISITORS AND THE GENERAL PUBLIC, AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY THROUGHOUT THE PROJECT AND NOT BE LIMITED BY WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.
- PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ALL UTILITY COMPANIES AND OBTAIN ANY RELEVANT INFORMATION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL BOUNDARY CORNERS AND SECTION CORNERS. ANY BOUNDARY CORNER AND/OR SECTION CORNER DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE RESET BY A LAND SURVEYOR LICENSED IN THE STATE OF MISSOURI, AT THE CONTRACTOR'S EXPENSE.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ADJACENT PROPERTIES AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE DURING CONSTRUCTION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR REPAIRING ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITIES.
- 12. PRIOR TO MOVING OFF THE JOB THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER TO PERFORM A FINAL WALK-THROUGH OF THE CONSTRUCTION SITE.

REFERENCES

- ARCHITECTURAL AND STRUCTURAL ELEMENTS SHOWN IN THESE PLANS ARE FOR REFERENCE ONLY. CONTRACTORS AND SURVEYORS SHALL REFERENCE THEIR RESPECTIVE PLANS FOR DESIGN INFORMATION.
- 2. THE CONTRACTOR SHALL ADHERE TO THE SITE PREPARATION AND STRUCTURAL FILL RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AS PROVIDED BY THE GEOTECHNICAL ENGINEER INCLUDING ALL CURRENT ADDENDUMS. THE STANDARDS AND SPECIFICATIONS OF LEE'S SUMMIT. MISSOURI SHALL ALSO APPLY AND TAKE PRECEDENCE WHEN STRICTER THAN THE GEOTECHNICAL REPORT OR WHEN NO GEOTECHNICAL REPORT
- 3. UNLESS EXPLICITLY DESCRIBED OTHERWISE WITHIN THESE PLANS THE FOLLOWING SHALL APPLY:
- A. ALL CONSTRUCTION, INCLUDING THOSE LISTED BELOW, SHALL CONFORM TO THE LATEST CODES AND ORDINANCES OF LEE'S SUMMIT, MISSOURI.
- B. ALL CONSTRUCTION IN MODOT RIGHT-OF-WAY SHALL CONFORM TO THE LATEST SPECIFICATIONS ADOPTED BY U.S. DEPARTMENT OF TRANSPORTATION AND MODOT.
- C. ALL TRAFFIC CONTROL SIGNAGE SHALL CONFORM WITH THE CURRENT EDITION OF THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES
- D. ALL UTILITY EXTENSIONS AND CONSTRUCTION SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE UTILITY COMPANIES..
- E. ALL EXTERIOR PAVEMENT (PCC, ASPHALT, ETC.) SHALL BE IN CONFORMANCE WITH THE SPECIFICATIONS OF LEE'S SUMMIT, MISSOURI AND THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE DELIVERY MANAGER AND COORDINATING ANY MAILBOXES THAT MAY BE DISTURBED. FAILURE TO DO SO MAY SUBJECT THE CONTRACTOR TO PROSECUTION BY THE FEDERAL GOVERNMENT.

EXISTING CONDITIONS

- 1. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS OF THE PROJECT AREA.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING THEIR OWN INVESTIGATIONS AND MAKING THEIR OWN ASSUMPTIONS REGARDING SITE SURFACE AND SUBSURFACE CONDITIONS. THIS INCLUDES THE LOCATION AND CONSISTENCY OF ANY EXISTING ROCK LAYERS UNDERLYING THE PROJECT SITE. CONTACT THE ENGINEER REGARDING ANY DISCREPANCIES THAT MAY AFFECT THE ABILITY TO CONSTRUCT FROM THESE PLANS AS DESIGNED.
- EXISTING CONDITIONS WERE DETERMINED THROUGH A VARIETY OF METHODS THAT MAY INCLUDE SURVEY, AERIAL IMAGERY, AVAILABLE RECORDS, GIS DATA, ETC. SUBSURFACE CONDITIONS ARE APPROXIMATE AND MAY NOT INCLUDE ALL UTILITIES AND OTHER SITE IMPROVEMENTS PRESENT ON SITE. THE CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS WHEN CONFLICTS AND DISCREPANCIES ARE FOUND.

CONSTRUCTION

- 1. THE CONTRACTOR SHALL INSTALL TRAFFIC CONTROL WHILE WORKING IN THE PUBLIC RIGHT-OF-WAY AS SHOWN IN THESE PLANS. IF PLANS ARE NOT PROVIDED, CONTRACTOR SHALL COORDINATE AND PROVIDE CONTROLS TO THE SATISFACTION OF THE RIGHT-OF-WAY OWNER.
- 2. THE CONTRACTOR SHALL PROTECT ALL TREES OVER 3" CALIPER FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE ON THESE PLANS.
- 3. IN ADDITION TO THE CONDITIONS OF THE GEOTECHNICAL REPORT AND AS A MINIMUM THE CONTRACTOR SHALL PERFORM THE GRADING AS FOLLOWS:
- A. THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY BUILDING AND PAVING. STRIPPING EXISTING TOPSOIL AND ORGANIC MATTER SHALL BE TO A MINIMUM DEPTH OF 6 INCHES. TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON SITE IN AREAS DESIGNATED BY THE OWNER CONTRACTOR SHALL REMOVE EXCESS STRIPPINGS AND EXCESS EXCAVATION WITHIN 30 DAYS OF COMPLETION OF GRADING OPERATIONS.
- B. AREAS TO RECEIVE FILL AND AREAS CUT TO SUBGRADE LEVEL SHALL BE SCARIFIED AND THE TOP 8-INCH DEPTH COMPACTED TO 95% STANDARD PROCTOR DENSITY. THE SUBGRADE SHALL BE PROOF ROLLED WITH A MODERATELY HEAVY LOADED DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOIL CONDITIONS. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY FILL MATERIAL CAN BE APPLIED.
- D. TOPSOIL SHALL BE PLACED TO A MINIMUM DEPTH OF 6 INCHES OVER ALL AREAS DISTURBED BY THE WORK. LARGE STONES, STICKS AND LUMPS SHALL BE REMOVED OR BROKEN UP, AND THE TOPSOIL SHALL BE LEVELED AND RAKED. ALL DISTURBED AREAS SHALL BE LANDSCAPED PER LANDSCAPE PLANS OR SHALL BE SEEDED. FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED.
- E. CONTRACTOR SHALL PROVIDE COMPACTION TEST RESULTS AS

C. FILL SHALL BE PLACED IN MAXIMUM OF 8 INCH LIFTS.

- 4. THE CONTRACTOR SHALL DISPOSE ALL WASTE MATERIAL RESULTING FROM THE PROJECT OFF-SITE AND IN STRICT CONFORMANCE WITH ALL LOCAL CODES AND ORDINANCES.
- 5. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS ARE TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED. NOT ALL ADJUSTMENTS ARE INDICATED IN THE PLANS.
- 6. THE CONTRACTOR SHALL STREET SWEEP OR OTHERWISE CLEAN ALL ACCESS ROUTES TO THE SITE AT CONCLUSION OF THE PROJECT.

SHOP DRAWINGS

- 1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING A MINIMUM OF 7 DAYS PRIOR TO THE REQUESTED DATE OF APPROVAL. ENGINEER SHALL REVIEW SHOP DRAWINGS OR SAMPLES CONFORMANCE WITH THE DESIGN FOR THIS PROJECT AS DESCRIBED IN THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS. THE ENGINEER'S REVIEW SHALL NOT EXTEND TO MEANS OR METHODS OF CONSTRUCTION . CONTRACTOR SHALL BE RESPONSIBLE FOR ANY VARIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS UNLESS CONTRACTOR HAS NOTIFIED ENGINEER OF EACH SUCH VARIATION AT THE TIME OF SUBMISSION, AND OBTAINED ENGINEER'S WRITTEN APPROVAL OF EACH SUCH VARIATION. PRIOR TO SUBMITTING EACH SHOP DRAWING OR SAMPLE, CONTRACTOR SHALL HAVE REVIEWED AND
- A. ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, SPECIFIED PERFORMANCE CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS, CATALOG NUMBERS AND SIMILAR INFORMATION WITH RESPECT
- B. ALL MATERIALS WITH RESPECT TO INTENDED USE, FABRICATION, SHIPPING, HANDLING, STORAGE, ASSEMBLY AND INSTALLATION PERTAINING TO THE PERFORMANCE OF THE WORK;
- C. ALL INFORMATION RELATIVE TO MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENT THERETO;
- D. CONTRACTOR SHALL ALSO HAVE REVIEWED AND COORDINATED EACH SHOP DRAWING OR SAMPLE WITH OTHER SHOP DRAWINGS AND SAMPLES. AND WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS.
- E. ALL SUBMITTED SHOP DRAWINGS SHALL BEAR A STAMP OR SPECIFIC WRITTEN INDICATION AND SIGNATURE THAT CONTRACTOR HAS FULLY COMPLETED THE ABOVE TASKS.
- 2. SHOP DRAWINGS AS DESCRIBED ABOVE ARE REQUIRED FOR, BUT NOT LIMITED TO. THE FOLLOWING:
 - A. ALL STORM SEWER STRUCTURES TO BE INSTALLED WITH THIS
 - B. ALL SANITARY SEWER STRUCTURES TO BE INSTALLED WITH THIS PROJECT.
 - C. ALL SITE FENCING AND RAILING INCLUDING ANY GATES.
 - D. ALL LANDSCAPE AND RETAINING WALLS.
 - E. ANY ITEMS IN THESE PLANS THAT ALLOW FOR AN "APPROVED EQUAL" ALTERNATIVE.

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	AS-BUI
	GRADING			
1	EXCAVATION	C.Y.	853	
2	EMBANKMENT	C.Y.	4803	
3	SUBGRADE STABILIZATION (9" FLYASH TREATMENT)	S.Y.	1544	
	PAVEMENT			
4	7.5" ASPHALT	S.Y.	159	
5	4" MODOT TYPE 5 AGGREGATE BASE	S.Y.	431	
6	6" MODOT TYPE 5 AGGREGATE BASE	S.Y.	1113	
	PAVEMENT MARKING AND SIGNAC	GE .		
7	4" SOLID WHITE STRIPING	L.F.	3330	
8	4" SOLID YELLOW STRIPING	L.F.	2826	
9	4" DOTTED WHITE/YELLOW STRIPING	L.F.	322	
10	TURN ARROWS	EA.	15	
11	STREET SIGNS	EA.	2	
	CURBS, SIDEWALKS & DRIVES			
12	CURB & GUTTER (TYPE CG-1)	L.F.	3353	
13	CONCRETE SIDEWALK (5' WIDE)	L.F.	1441	
14	CONCRETE DRIVE APPROACH (8" UNREINFORCED)	S.F.	3876	
15	CURB RAMPS	EA.	4	
	STORM SEWER			
16	15" HDPE	L.F.	78.5	
17	18" HDPE	L.F	62.0	
18	15" END SECTION	EA.	1	
19	18" END SECTION	EA.	1	
20	STD. 4'X4' FIELD INLET	EA.	1	
21	RIPRAP	S.Y.	26.3	

SUMMARY OF QUANTITIES AS INDICATED ABOVE AND ANY QUANTITIES AS SHOWN WITHIN THE PLANS HAVE BEEN PROVIDED FOR PERMITTING PURPOSES ONLY AND ARE NOT INTENDED FOR USE IN PREPARATION OF CONTRACT DOCUMENTS. QUANTITIES INTENDED FOR, BUT NOT LIMITED TO, THE PREPARATION OF PROPOSALS AND BID DOCUMENTS SHALL BE INDEPENDENTLY EVALUATED BY THE ESTIMATING PARTY BASED UPON THE CONTENTS OF THESE PLANS.

	LEGE	:ND	
	GENERAL	Δ DM/	SURVEY MARKERS
ACU AST	AIR CONDITIONING UNIT ARROW STRAIGHT	BMK A CPT	BENCHMARK CONTROL POINT
h ATL	ARROW TURN LEFT	O FND	FOUND MONUMENT
→ ATR	ARROW TURN RIGHT	ROW ROW	ROW MARKER
ở BLB	BILLBOARD	→ SCR	SECTION CORNER
⋈ BOV	BLOW OFF VALVE	• SET	SET MONUMENT
⊕ BSH	BUSH		BOUNDARIES
o COL	COLUMN		SECTION LINE
₩ CTR	CONIFEROUS TREE	- ER	EXISTING PROPERTY BOUNDARY
■ DRN	DRAIN GRATE		PROPOSED PROPERTY BOUNDARY
O DTR	DECIDUOUS TREE		EXISTING LOT LINE
O FLP	FLAG POLE		PROPOSED LOT LINE
O GDP	GUARD POST	ER/W	EXISTING RIGHT-OF-WAY
-G GPL	GUY POLE		PROPOSED RIGHT-OF-WAY
♦ GTP	GREASE TRAP		UTILITIES
← GUY	GUY WIRE	© CAB	CABLE BOX
<pre></pre>	ACCESSABLE PARKING MARKER LIFT STATION	CV CAV	CABLE VAULT TELEVISION PEDESTAL
Φ LS1 Φ MLB	MAILBOX	© TVR	TELEVISION PEDESTAL TELEVISION RISER
Φ MP	MILE POST MARKER	-ECTVOH-	EXISTING CABLE TV, OVERHEAD
● MWL	MONITORING WELL	-ECTV	EXISTING CABLE TV, UNDERGROUND
₩ PIV	POST INDICATOR VALVE	-CTVOH-	PROPOSED CABLE TV, OVERHEAD
○ PPT	PROPANE TANK		PROPOSED CABLE TV, UNDERGROUND
_ RAT	RADIO TOWER	F FOB	FIBER OPTIC BOX
≇ SAD	SATELLITE	© FOM	FIBER OPTIC MANHOLE
⋈ SCV	SPRINKLER CONTROL VALVE	FO FOP	FIBER OPTIC PEDESTAL
→ SGN	SIGN	FOV FOV	FIBER OPTIC VAULT
SLB	STREET LIGHT BOX	-EFOOH	EXISTING FIBER OPTIC, OVERHEAD
SLC SLC	STREET LIGHT CABINET	FOOL	EXISTING FIBER OPTIC, UNDERGROUND
S SPB	SPRINKLER BOX		PROPOSED FIBER OPTIC, OVERHEAD
O SPH	SPRINKLER HEAD STUMP	FO ☆ FDC	PROPOSED FIBER OPTIC, UNDERGROUND FIRE DEPT. CONNECTION
X SVL	SEWER VALVE	— EFP	EXISTING FIRE PROTECTION SYSTEM LINE
□ TCB	TRAFFIC CONTROL BOX		PROPOSED FIRE PROTECTION SYSTEM LINE
o—ooo TSA	TRAFFIC SIGNAL WITH MAST ARM	EFL	EXISTING FUEL LINE
TSC et	TRAFFIC SIGNAL CABINET		PROPOSED FUEL LINE
® TSMH	TRAFFIC SIGNAL MANHOLE	☐ GAR	GAS RISER
∞ TSP	TRAFFIC SIGNAL POLE	© GMH	GAS MANHOLE
~~~	EXISTING TREELINE	• GMK	GAS MARKER
~~~	PROPOSED TREELINE	GM GMT	GAS METER
	EXISTING SIDEWALK	□ GRG	GAS REGULATOR
	PROPOSED SIDEWALK	X GVL	GAS VALVE
	FUTURE SIDEWALK	- EG	EXISTING NATURAL GAS LINE
	EXISTING BUILDINGS		PROPOSED NATURAL GAS LINE
	PROPOSED BUILDINGS	TEC TEC	TELEPHONE CABINET
	FUTURE BUILDINGS	TEP TEP	TELEPHONE PEDESTAL
	EXISTING EDGE OF PAVEMENT PROPOSED EDGE OF PAVEMENT	TEV TEV	TELEPHONE RISER TELEPHONE VAULT
	FUTURE EDGE OF PAVEMENT	T TMH	TELEPHONE MANHOLE
	EXISTING ROADWAY CENTER LINE	ETELOH	EXISTING TELEPHONE LINE, OVERHEAD
	PROPOSED ROADWAY CENTER LINE	ETEL	EXISTING TELEPHONE LINE, UNDERGROUND
	FUTURE ROADWAY CENTER LINE	-TELOH-	PROPOSED TELEPHONE LINE, OVERHEAD
	EXISTING CURB & GUTTER	— TEL	PROPOSED TELEPHONE LINE, UNDERGROUND
	PROPOSED CURB & GUTTER	☆ GLT	GROUND LIGHT
	FUTURE CURB & GUTTER	↓ LTP	LIGHT POLE
R	RADIUS	− PWP	POWER POLE
L	ARC DISTANCE	■ TRF	ELECTRIC TRANSFORMER
D	DELTA / CENTRAL ANGLE	E EBX	ELECTRIC BOX
	ASEMENTS & SETBACKS	ELC ELC	ELECTRIC CABINET
A.E.	ACCESS EASEMENT	ER ELR	ELECTRIC RISER
B.M.P. B.L.	BEST MANAGEMENT PRACTICE EASEMENT BUILDING SETBACK	© EMH	ELECTRIC MANHOLE ELECTRIC METER
C.T.V.E.	CABLE TV EASEEMNT	ES ESC	ELECTRIC METER ELECTRIC SECTIONALIZER
C.T.V.E.	CONSERVATION EASEMENT	EV EVT	ELECTRIC SECTIONALIZER ELECTRIC VAULT
C.G.E.	CONSTRUCTION GRADING EASEMENT		YARD LIGHT
F.P.E.	FLOOD PLAIN EASEMENT	-EEOH	EXISTING POWER\ELECTRIC LINE, OVERHEAD
F.O.E.	FIBER OPTIC EASEMENT	EE	EXISTING POWER\ELECTRIC LINE, UNDERGROUND
F.P.S.E.	FIRE PROTECTION SYSTEM EASEMENT	● SCO	SEWER CLEANOUT
F.L.E.	FUEL LINE EASEMENT	⑤ SSMH	SANITARY MANHOLE
L.S.E.	LANDSCAPE EASEMENT	ESS	EXISTING SANITARY SEWER
G.E.	NATURAL GAS EASEMENT		PROPOSED SANITARY SEWER
T.E. E.E.	TELEPHONE EASEMENT	FSS ESL	FUTURE SANITARY SEWER EXISTING STEAM LINE
P.S.	POWER\ELECTRIC EASEMENT PARKING SETBACK	— SL	PROPOSED STEAM LINE
S.B.	STREAM BUFFER	SDMH	STORM SEWER MANHOLE
S.D.E.	SURFACE DRAINAGE EASEMENT	₩ SDIWITI	FLARED END SECTION
	SIGHT DISTANCE EASEMENT	O RDN	ROOF DRAIN
S.E.	SANITARY SEWER EASEMENT	EST	EXISTING STORM SEWER
S.L.E.			PROPOSED STORM SEWER
D.E.	STORM DRAINAGE EASEMENT		
S.W.M.E.	STORM WATER MANAGEMENT EASEMENT	-Ó FH	FIRE HYDRANT
T.C.D.S.E.	TEMPORARY CUL-DE-SAC EASEMENT	W WMH	WATER MANHOLE
TEMP. ESMT.		• WMK	WATER MARKER
TRAIL ESMT.	`	WM WMT	WATER METER
U.E. W.E.	UTILITY EASEMENT	X WVL	WATER VALVE
W.E. F.Y.S	WATER EASEMENT FRONT YARD SETBACK	——₩	EXISTING WATER LINE PROPOSED WATER LINE
R.Y.S.	REAR YARD SETBACK		I NOI OOLD WATER LINE
S.Y.S.	SIDE YARD SETBACK		l
J. 1.J.	CONTOURS		l
100	EXISTING INDEX CONTOURS		
	EXISTING INTERMEDIATE CONTOURS		
100	PROPOSED INDEX CONTOURS		
100	PROPOSED INTERMEDIATE CONTOURS		

NICHOLAS D. HEISER 07/22/2020 PE-201500055 NICHOLAS D. HEISER, P.E. MO# 2015000555

checked by: N.D.H. designed by: <u>M.J.D.</u> QA/QC by:_ N.D.H. project no.:____ 019-0012-B 2020.06.12

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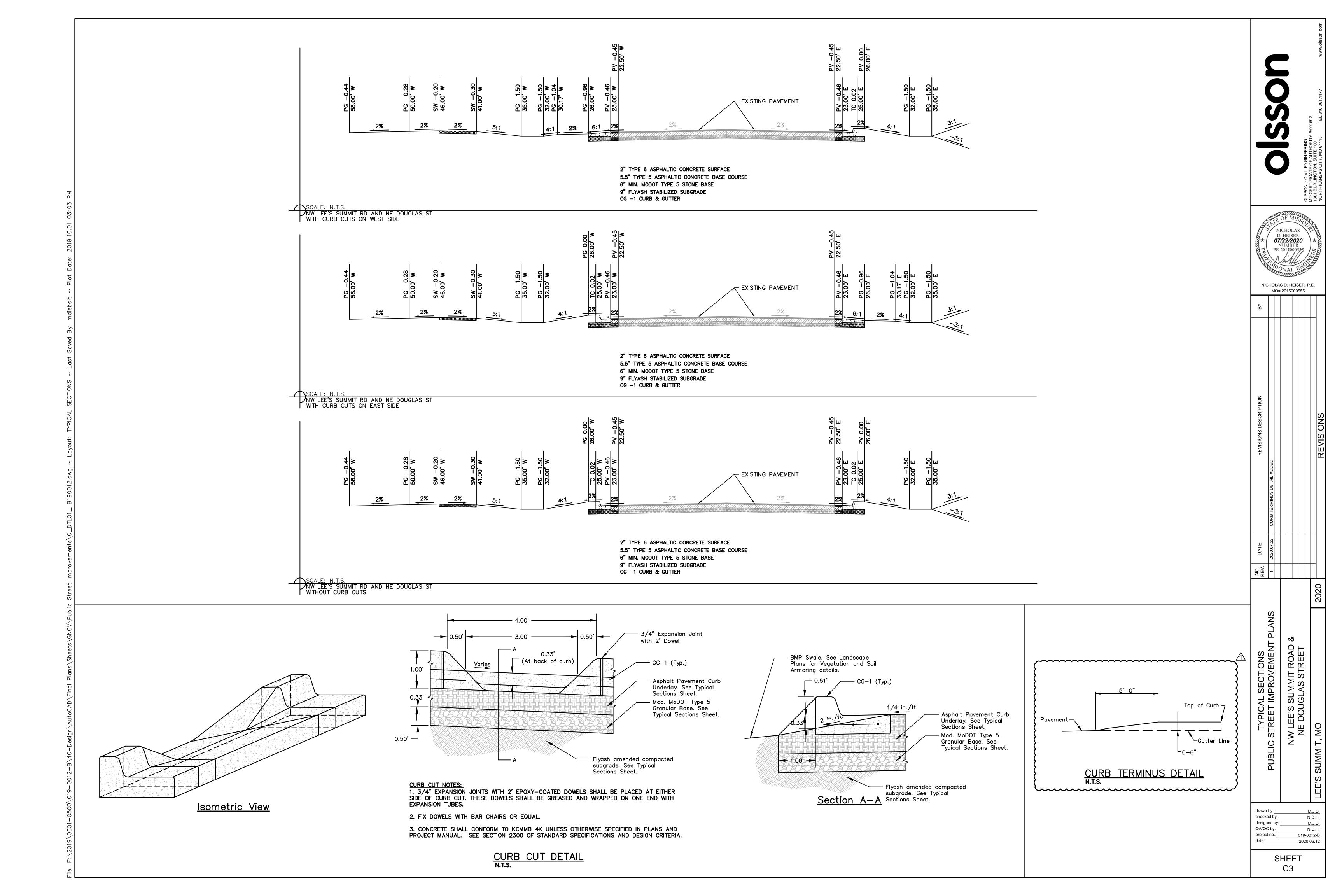
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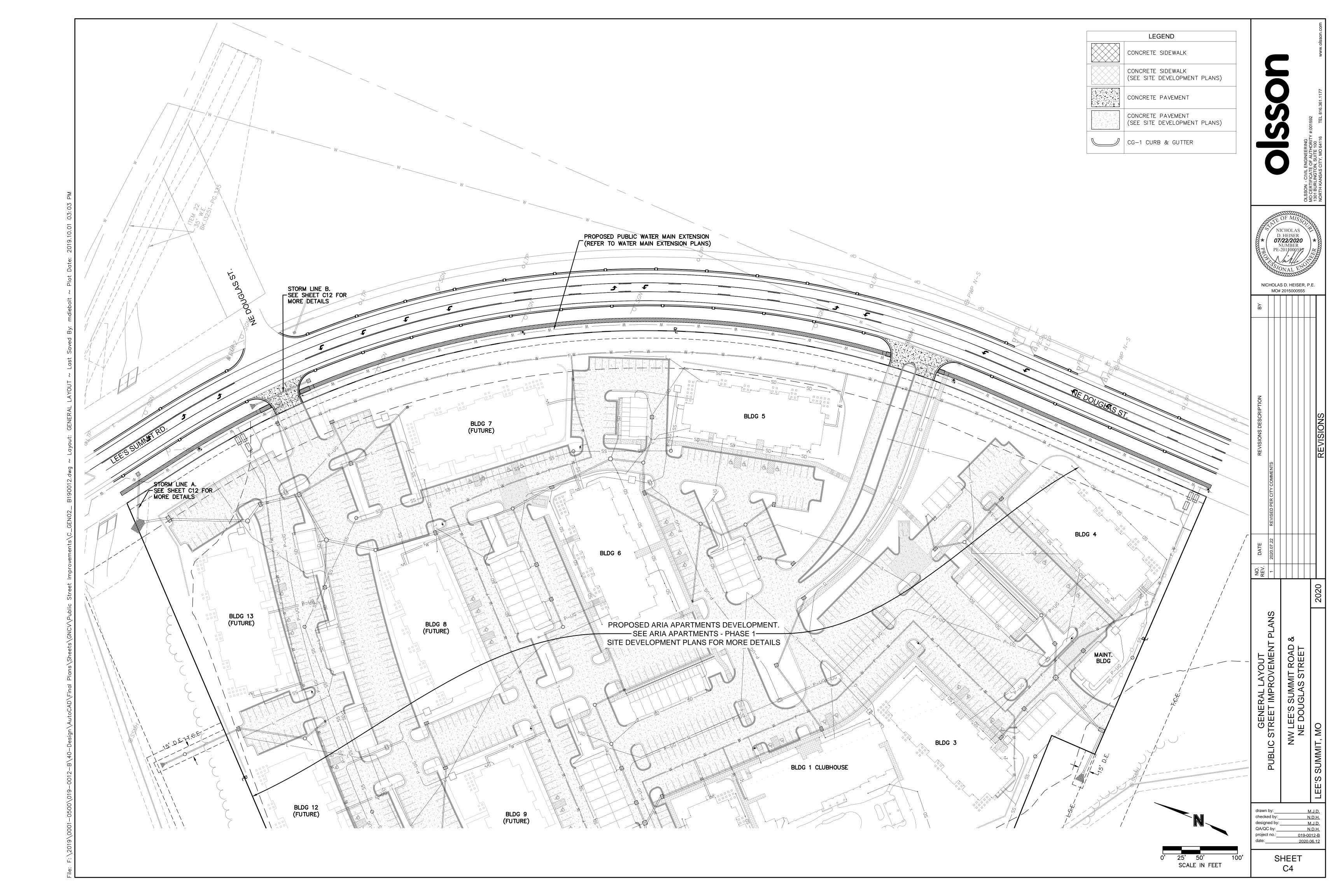
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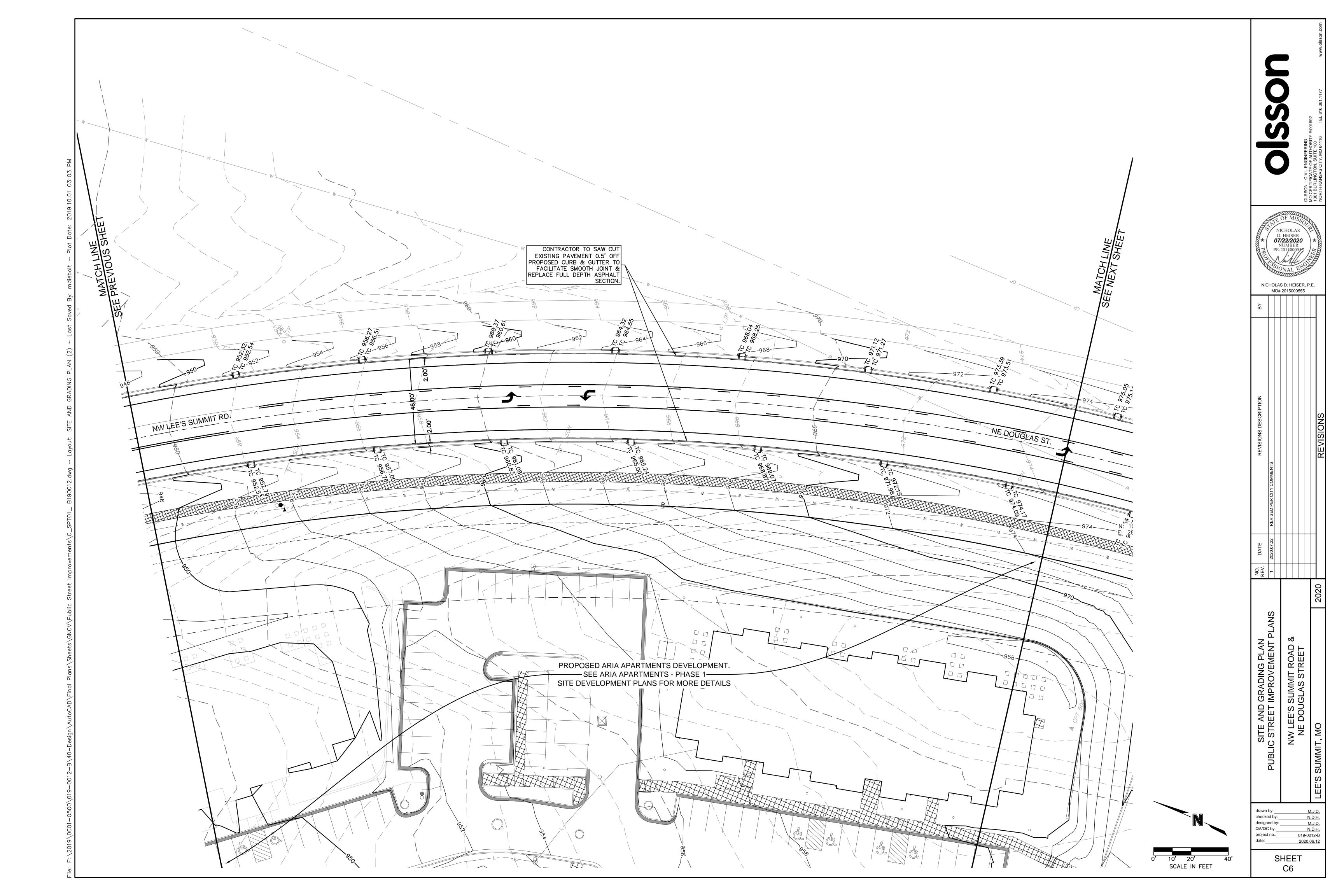
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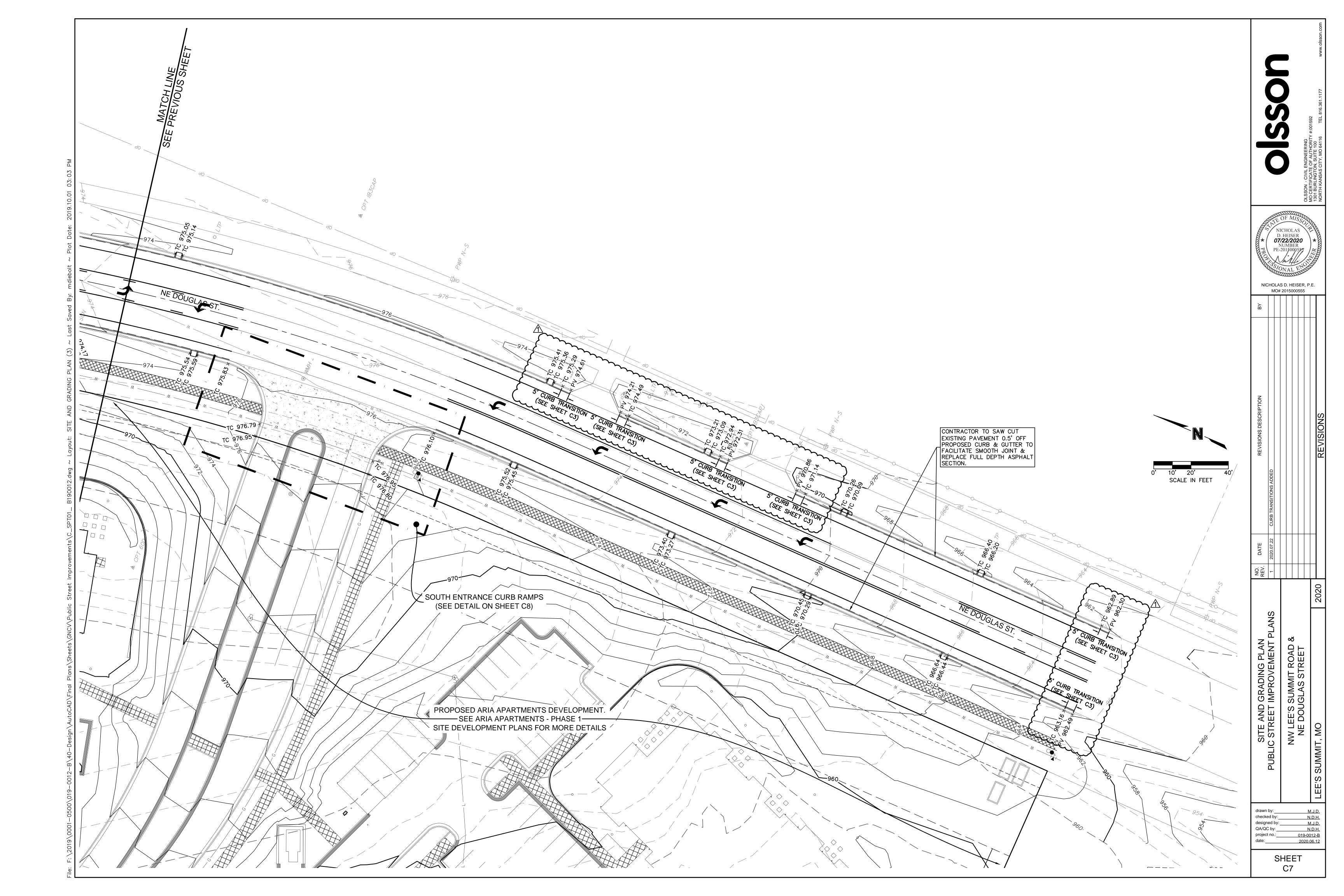
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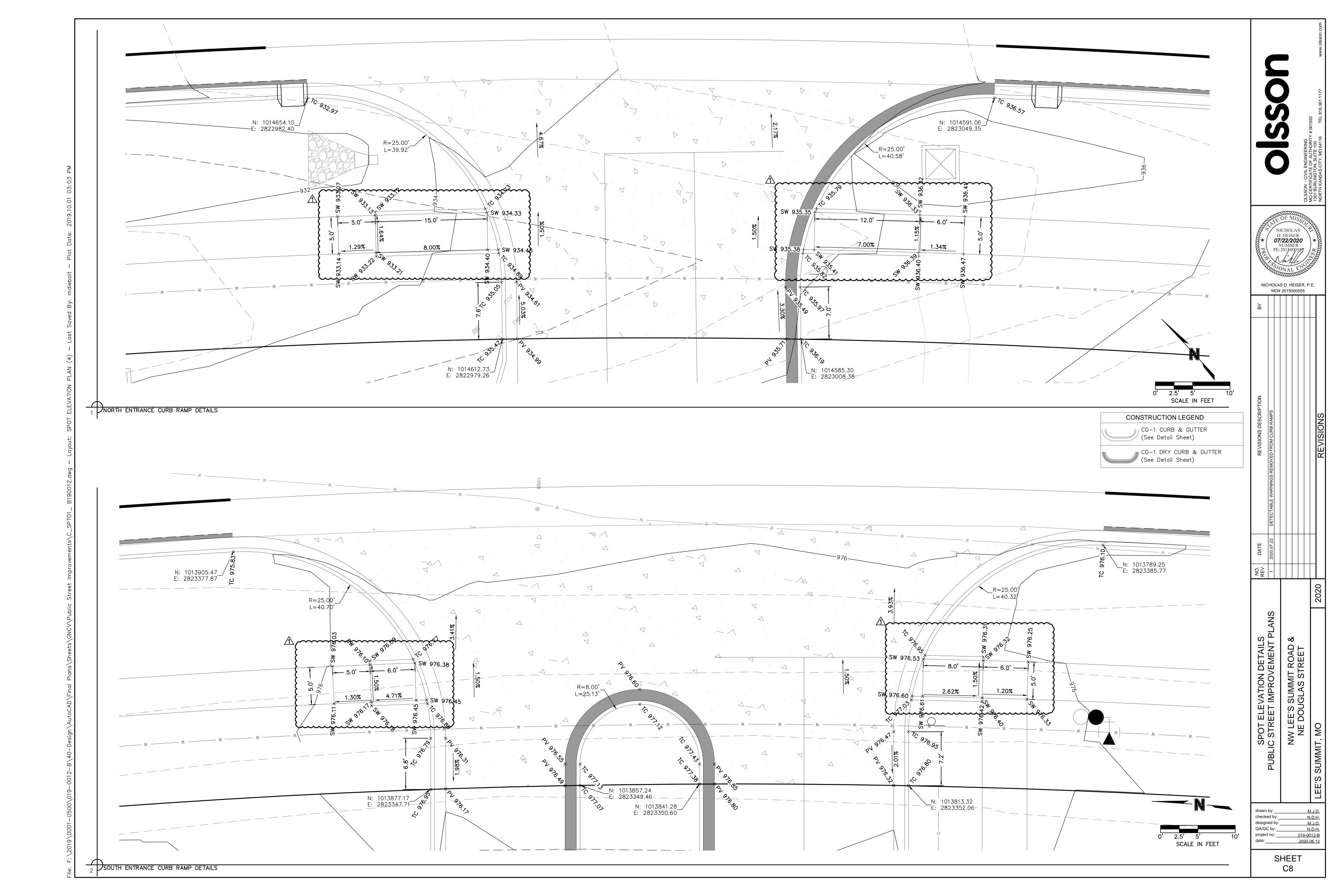


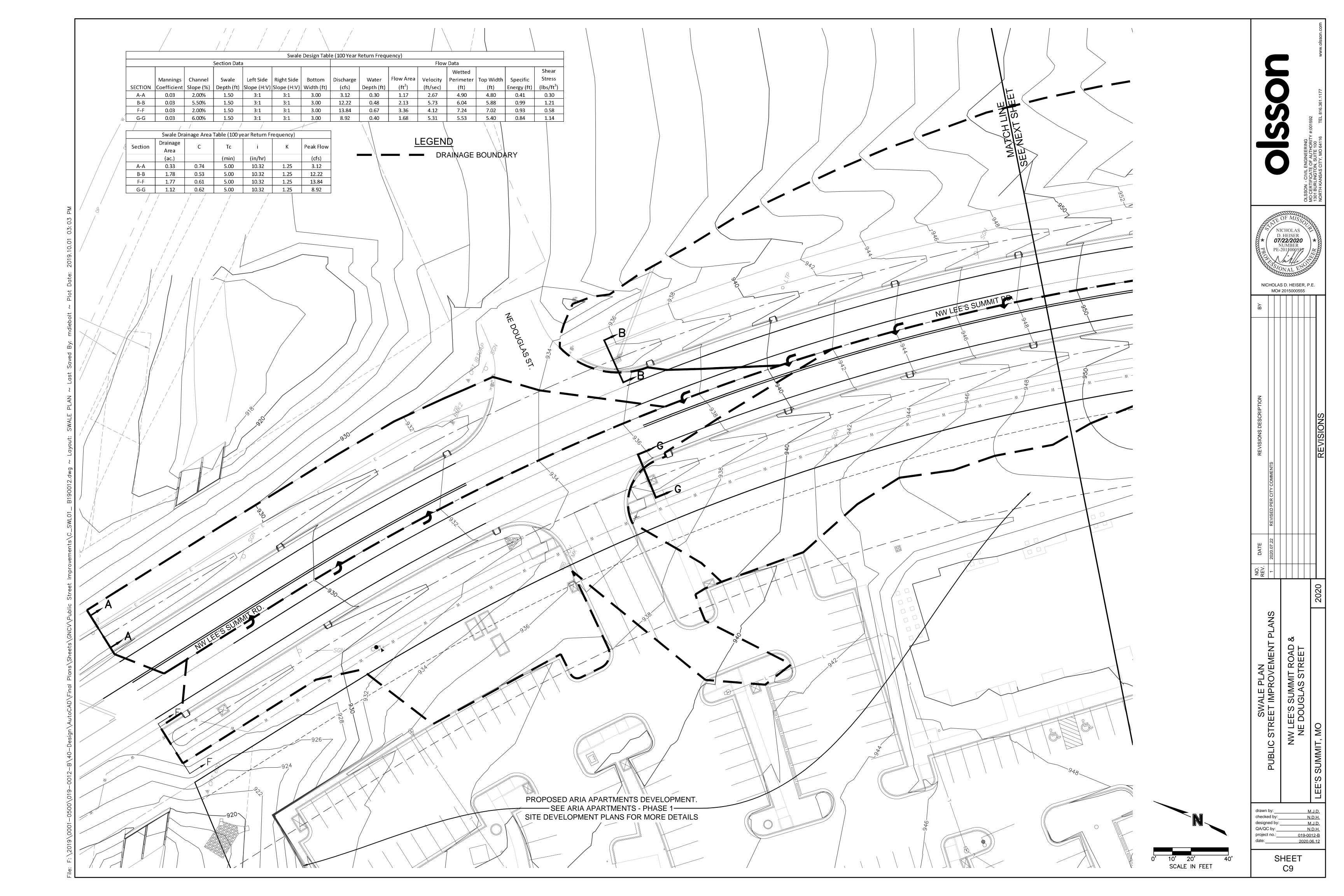


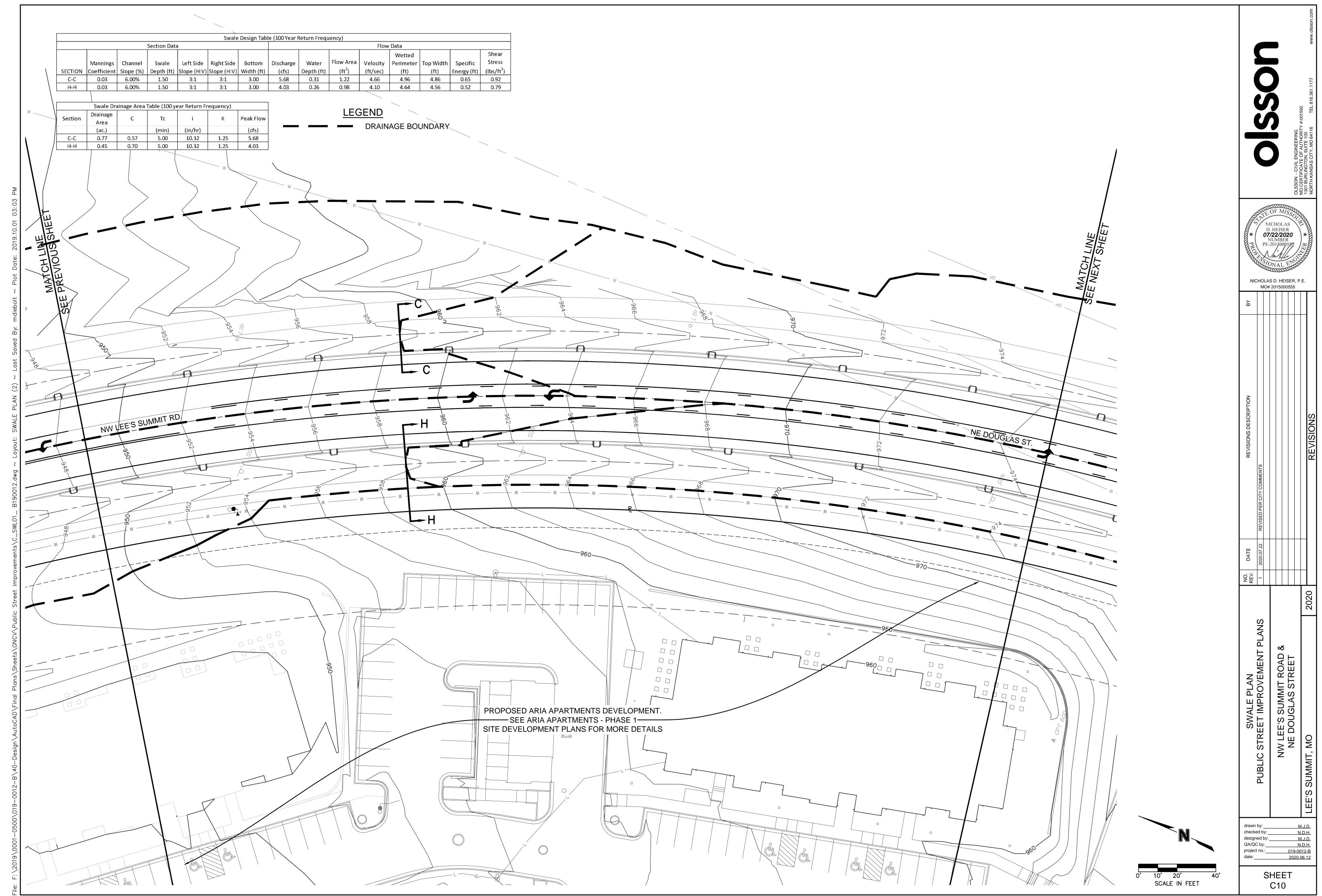


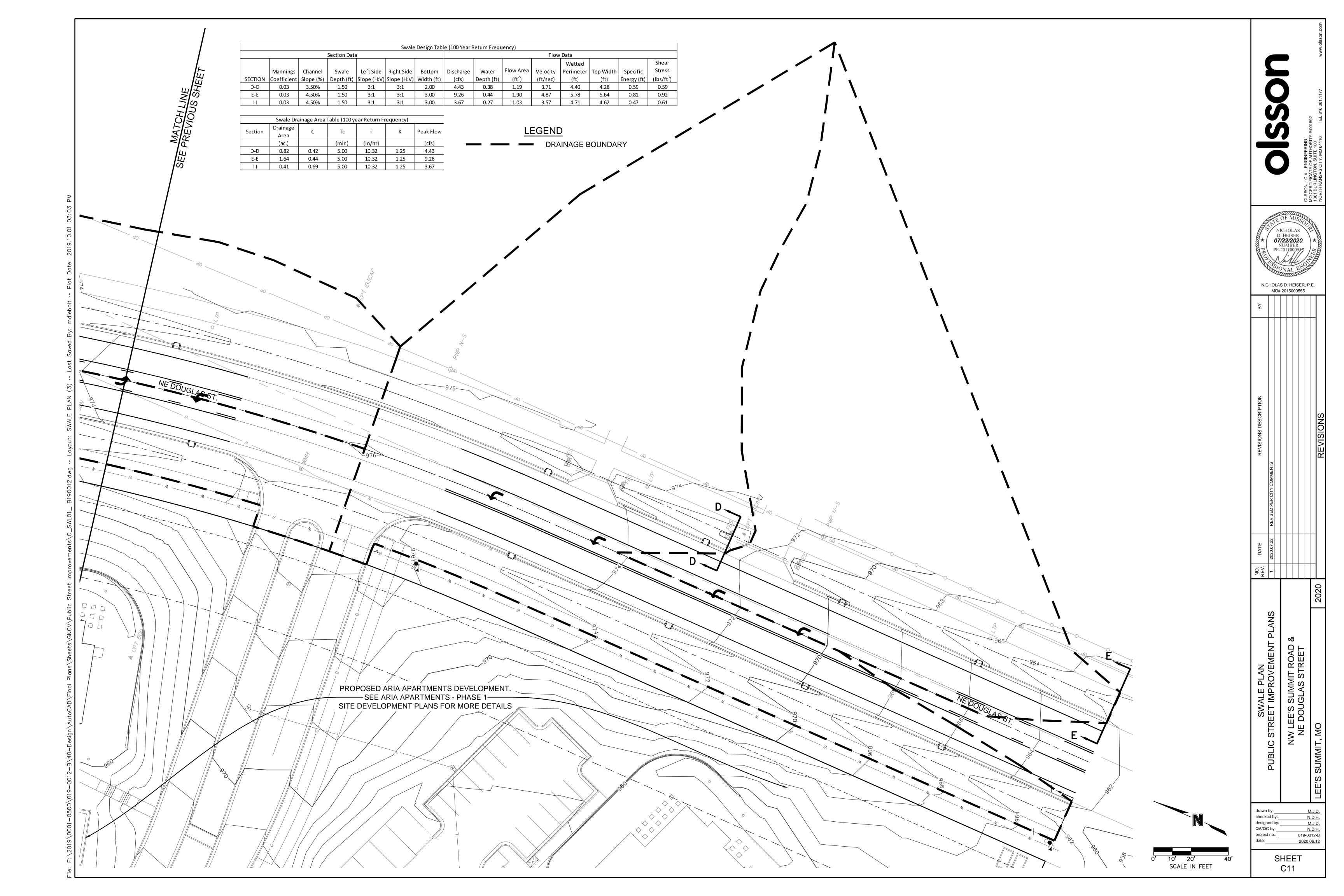


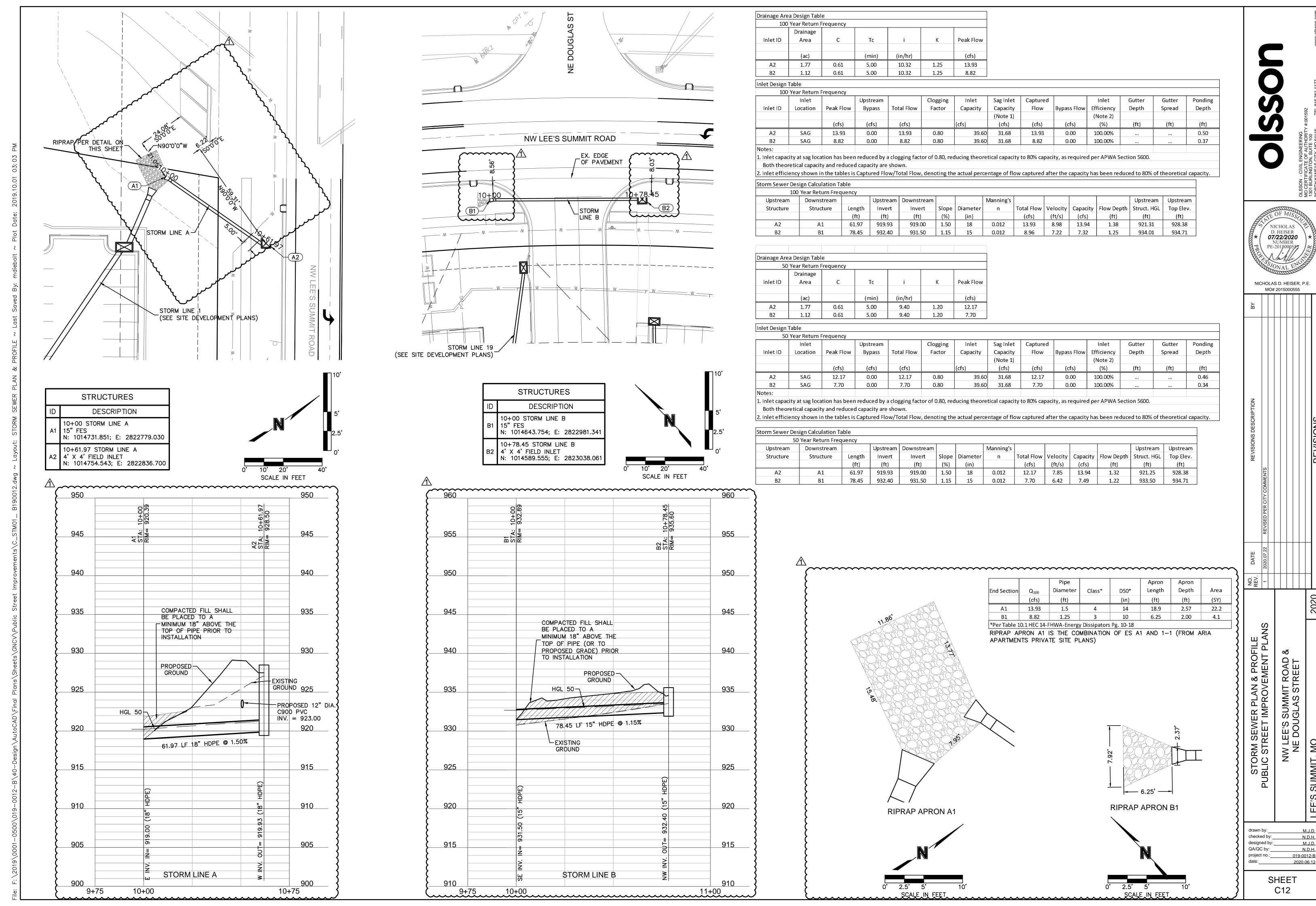


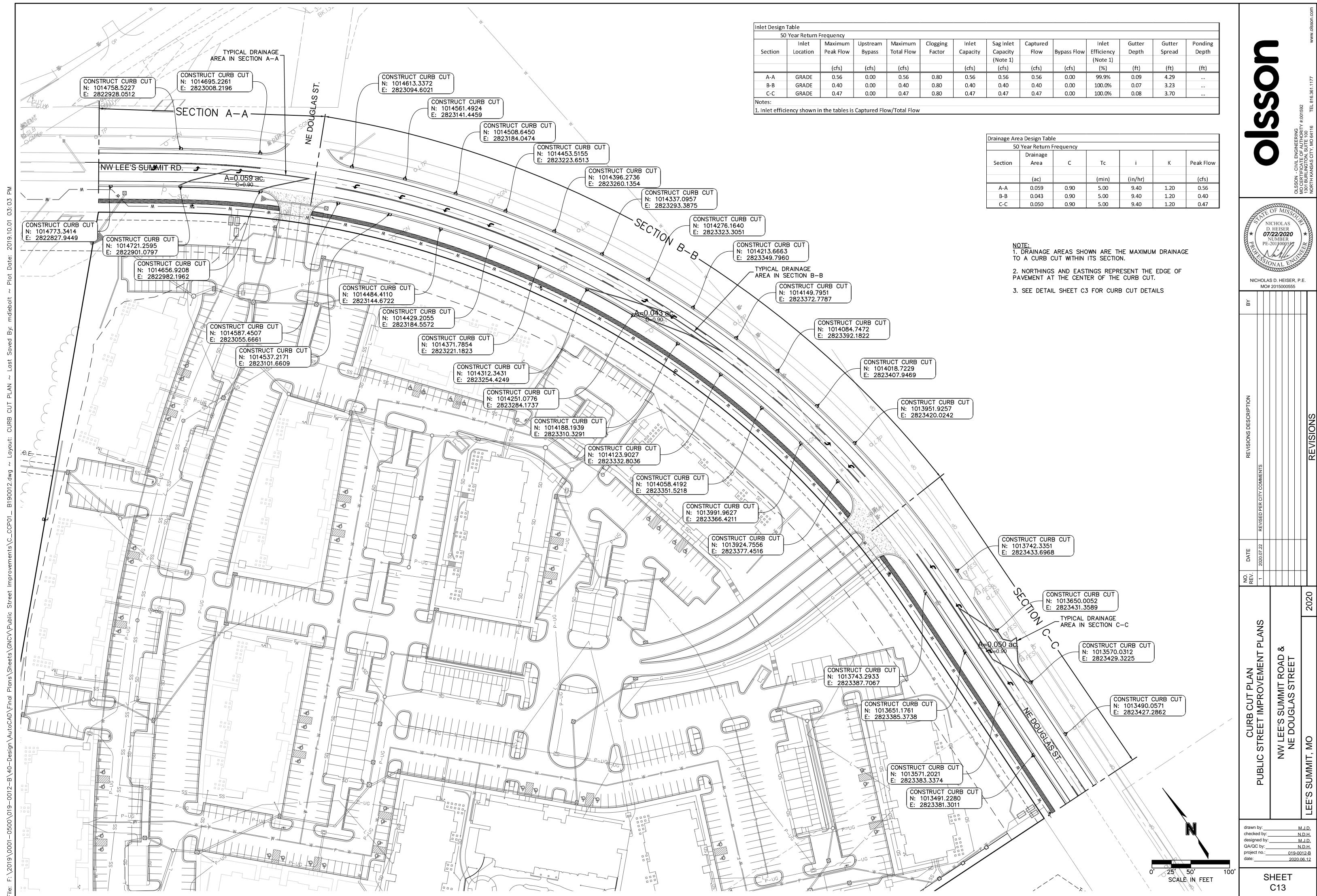


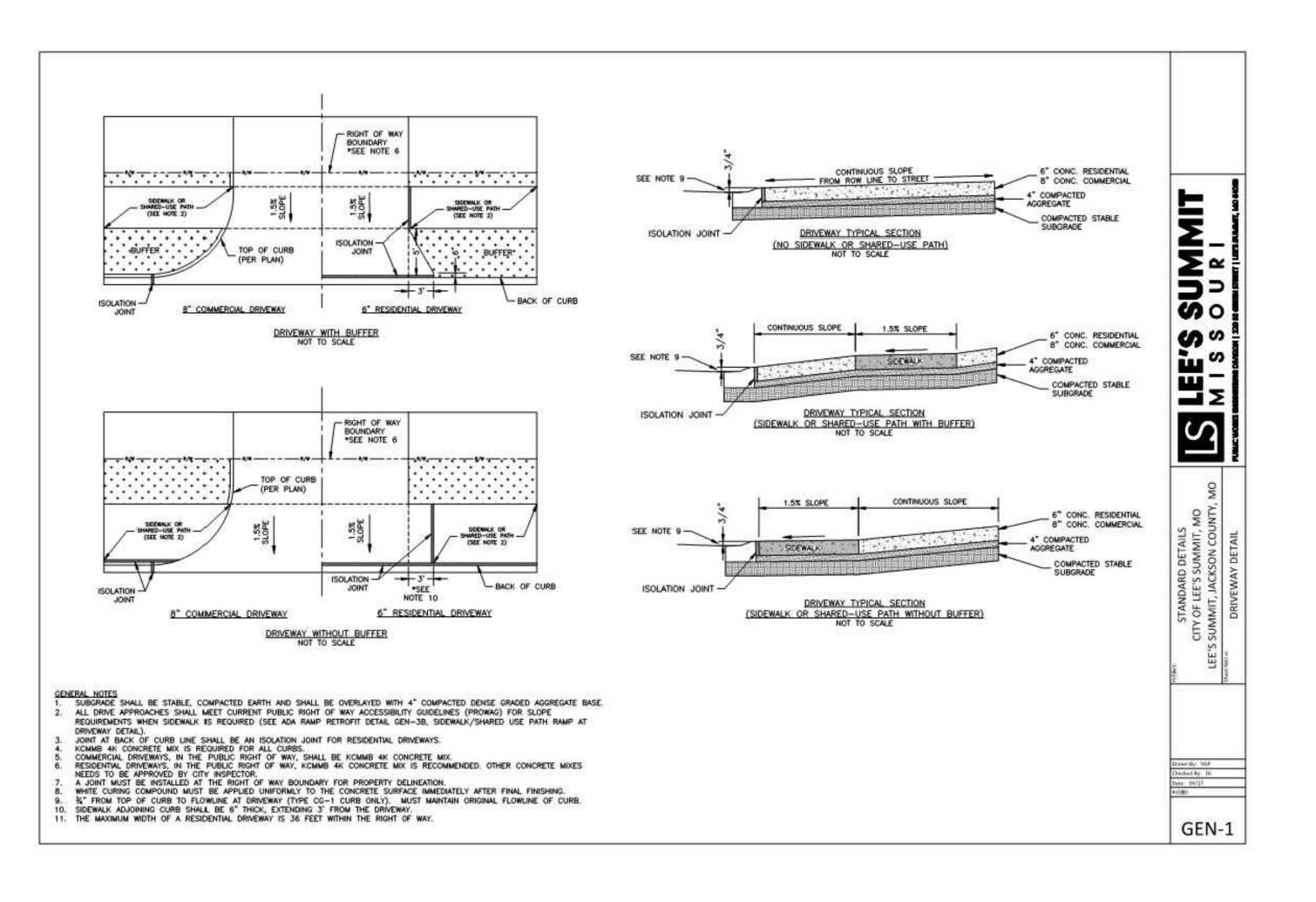


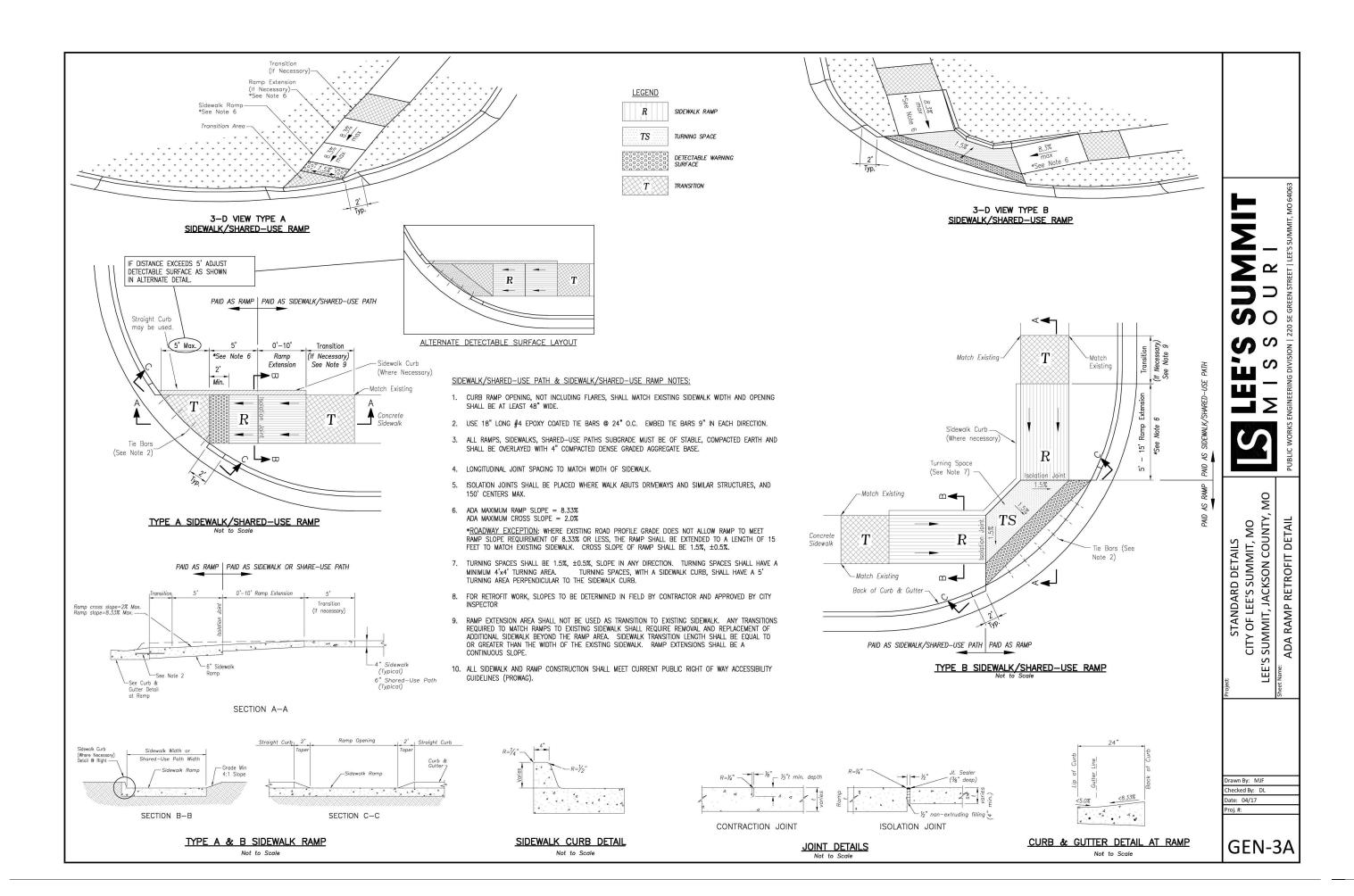


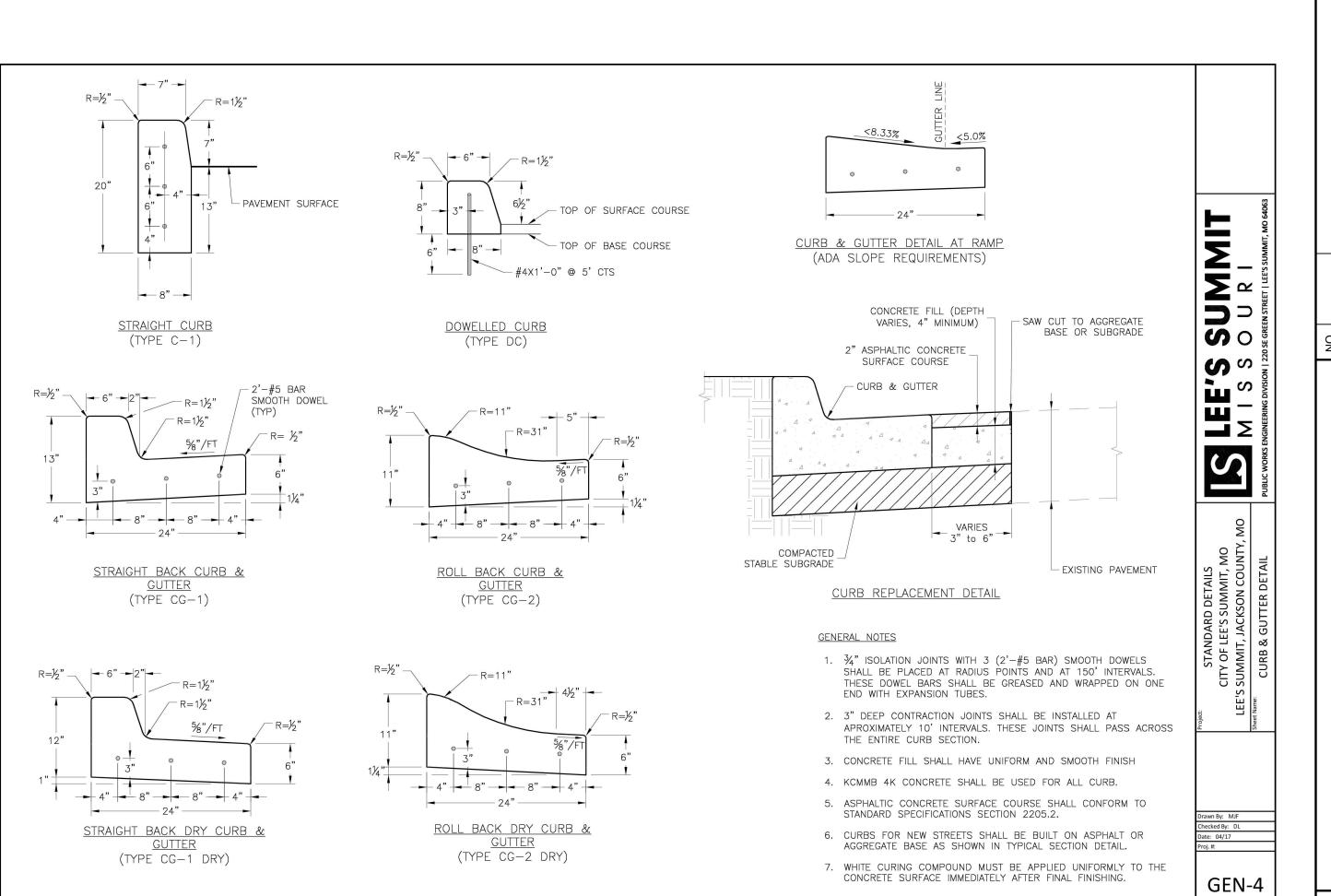












OLSSON - CIVIL ENGINEERING
MO CERTIFICATE OF AUTHORITY #:001592

NICHOTAS D' HEISER' 6

MO CERTIFICATE OF AUTHORITY #:001592

1301 BUNLINGTON, SUITE 100

NORTH KANSAS CITY, MO 64116

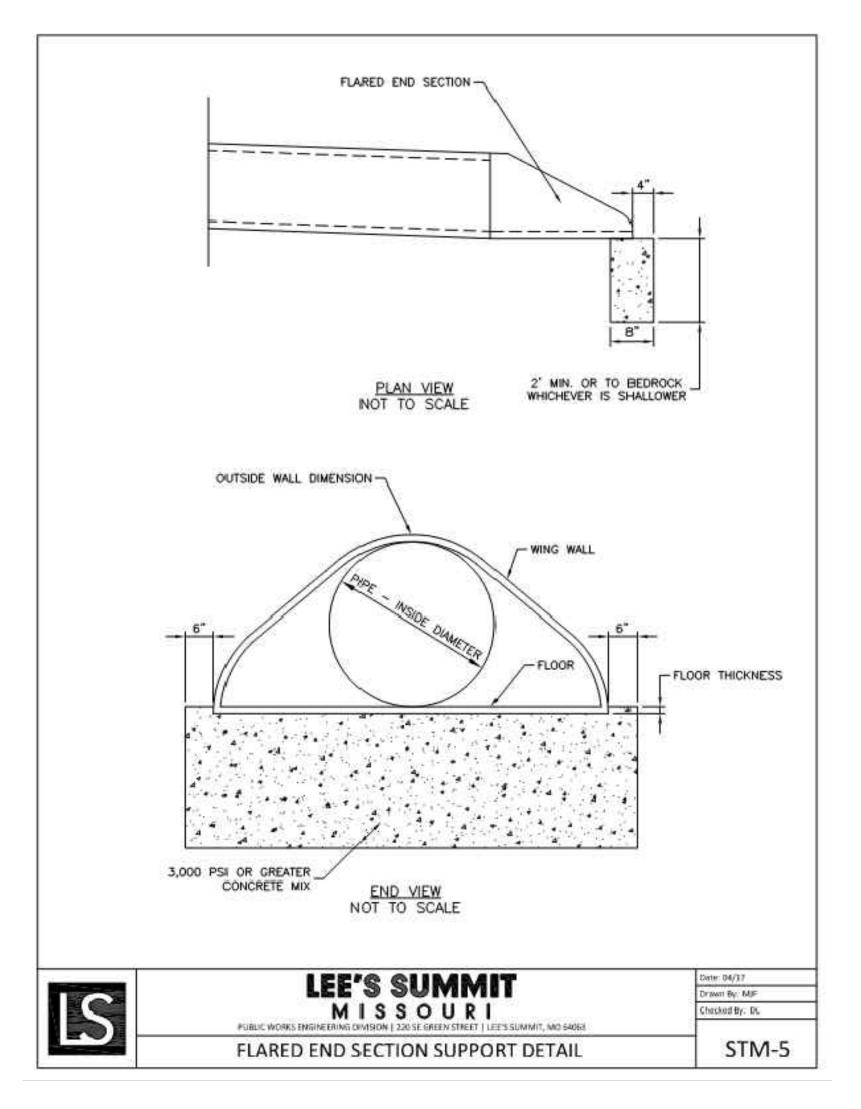
TEL 816.361.1777

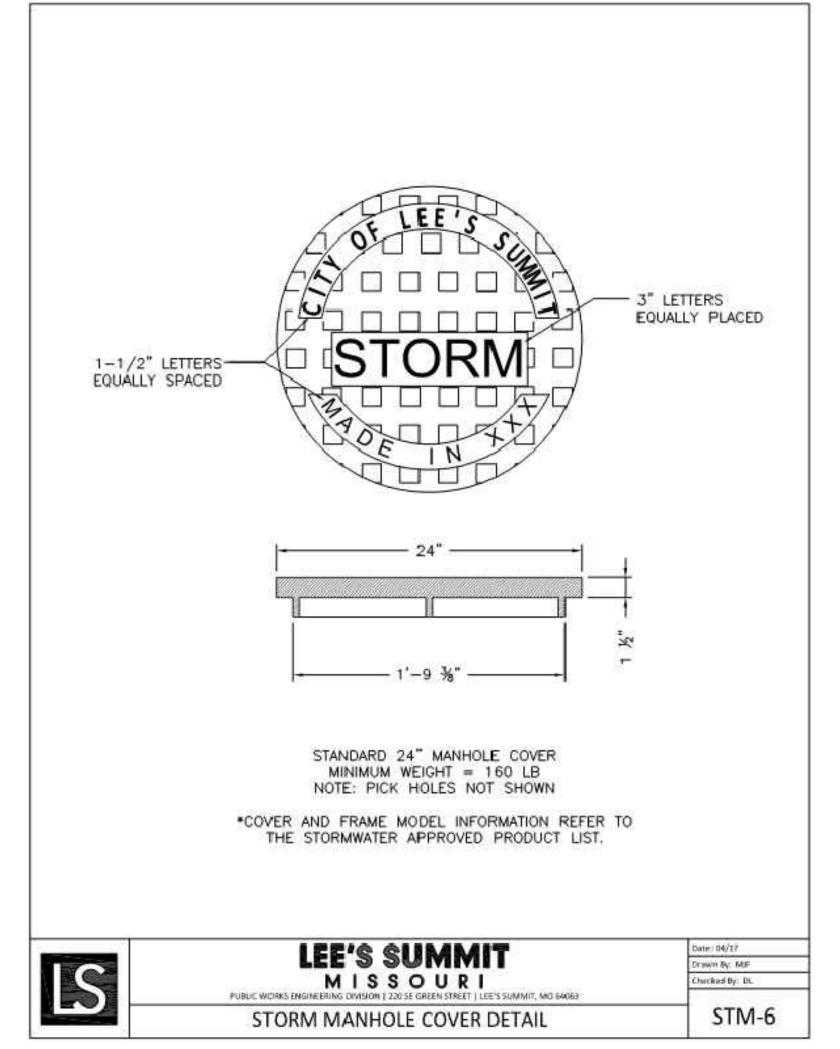
WWW. Olsson.com

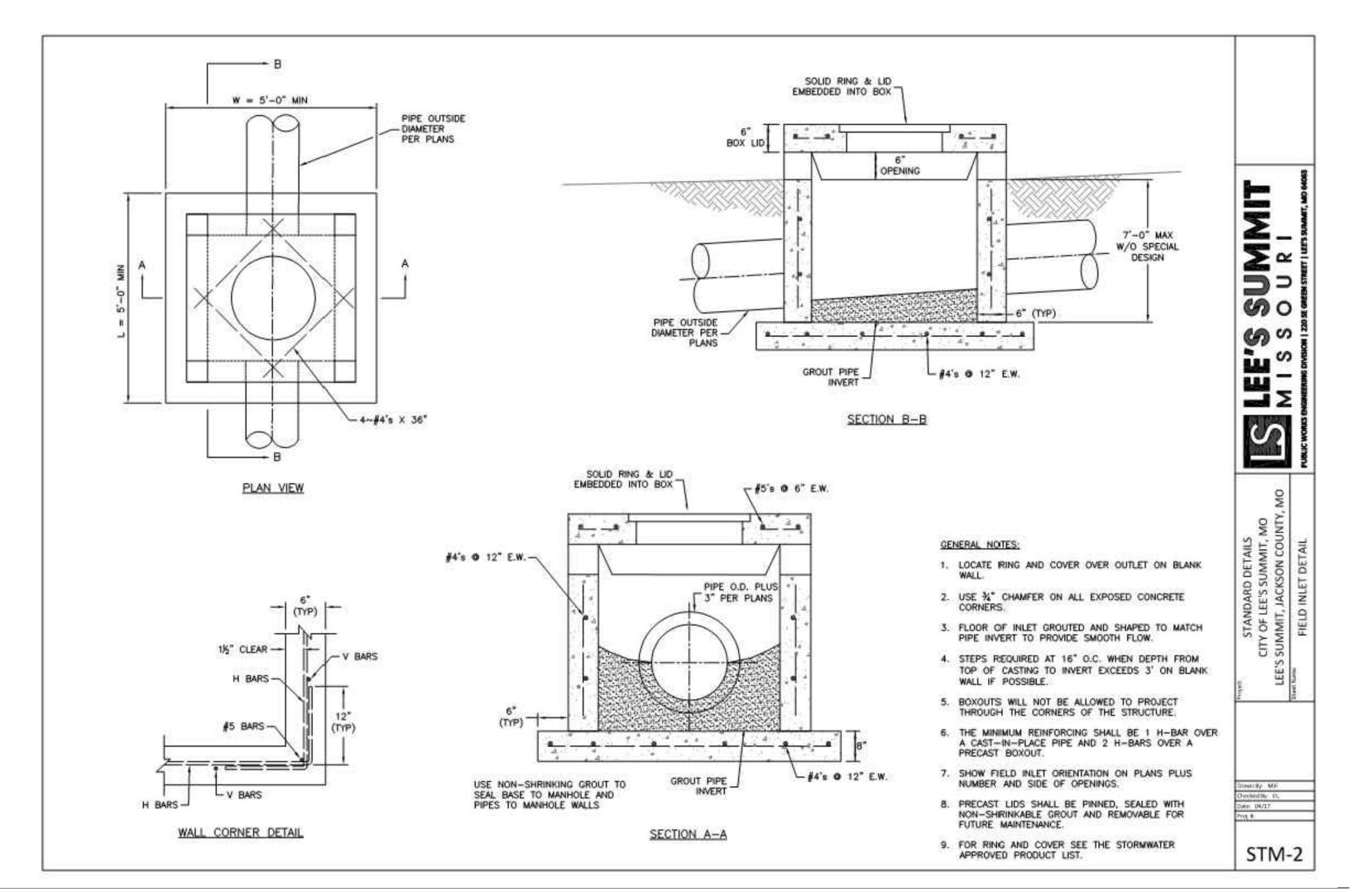
DETAIL SHEET PUBLIC STREET IMPROVEMENT PLAN	NW LEE'S SUMMIT ROAD & NE DOUGLAS STREET	LEE'S SUMMIT, MO
	N	
designed by:	N. N.	l.J.D.
QA/QC by:	N	<u>.D.H.</u>
project no.:	019-00	12-B
date:	2020 (

2020.06.12

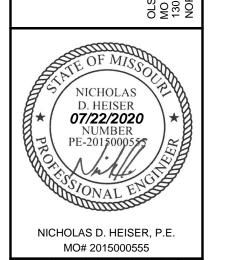
SHEET C14







ON - CIVIL ENGINEERING FRTIFICATE OF AUTHORITY #:001592



ВҮ			
REVISIONS DESCRIPTION	REVISED PER CITY COMMENTS		REVISIONS

NE DOUGLAS STREET LEE'S SUMMIT, MO
NW LEE'S SUMMIT ROAD & NE DOUGLAS STREET
DELAIL SHEET PUBLIC STREET IMPROVEMENT PLAI

2020.06.12 SHEET

QA/QC by:_

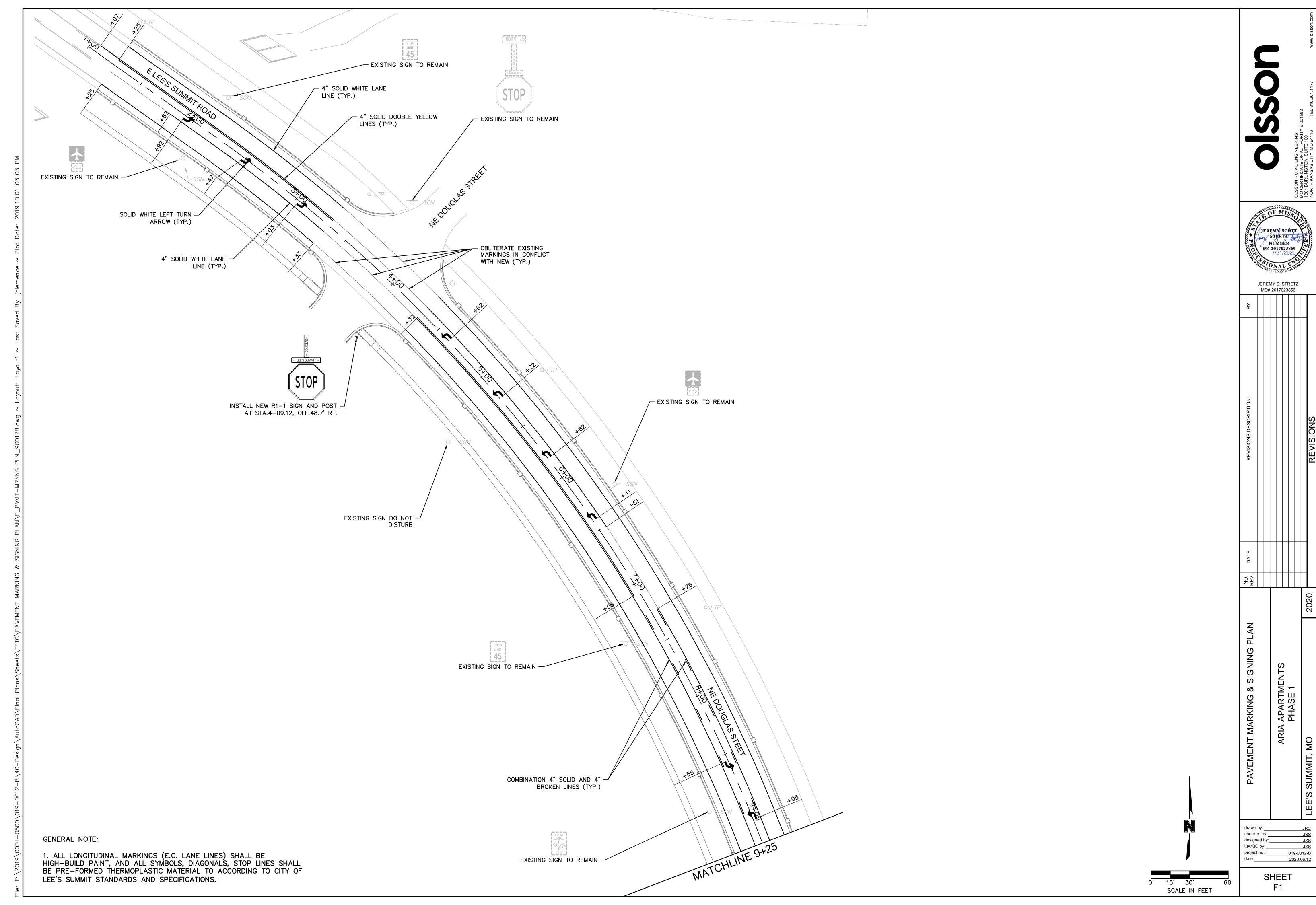
project no.:____

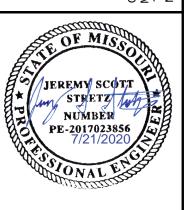
N.D.H.

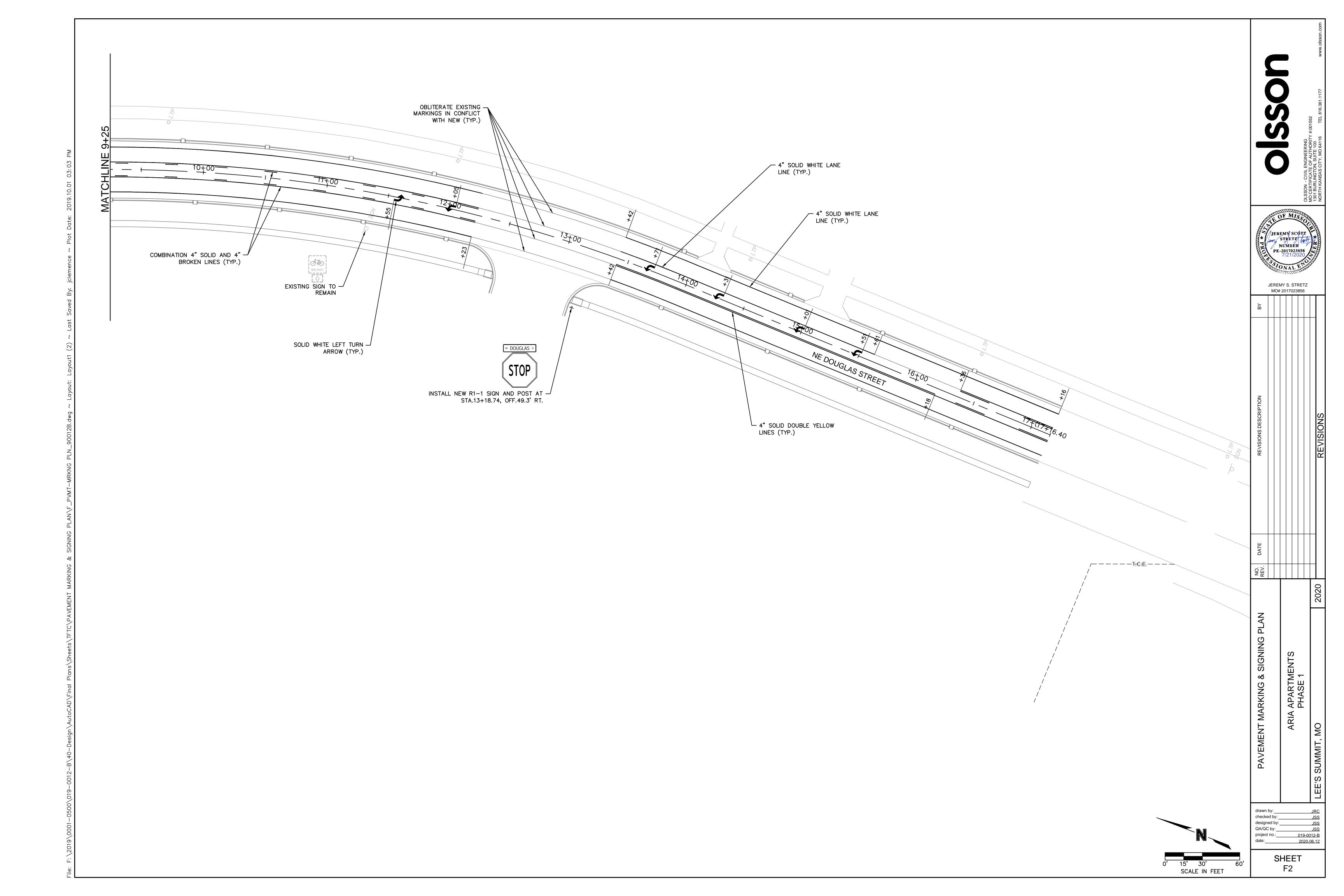
M.J.D.

N.D.H.

019-0012-B







	PERMANENT SIGNING SUMMARY									
					AREA (SF)					
STATION	STREET REFERENCE	OFFSET FROM C/L	MUTCD DESIGNATION	SIGN SIZE	MEP SIGNS	POST TYPE				
4+09.12	E LEES SUMMIT ROAD	48.7' RIGHT	R1-1	30"x30"	5.18	SQUARE				
			D3-1 (Lee's Summit Rd)	9"x48"	6.00	SHARED				
			D3-1 (NE Douglas St)	9"x48"	6.00	SHARED				
13+18.74	E LEES SUMMIT ROAD	49.3' RIGHT	R1-1	30"x30"	5.18	SQUARE				
			D3-1 (NE Douglas St)	9"x48"	6.00	SHARED				
	TOTALS		28.36	5		2				

PAVEMENT MARKING SUMMARY									
						PRE-FC	DRMED		
						THERMO	PLASTIC		
			HIGH-BUILD PAINT	HIGH-BUILD PAINT	HIGH-BUILD PAINT	WHITE TURN			
			4" SOLID WHITE LANE	4" SOLID YELLOW LANE	4" BROKEN YELLOW	ARROWS (EA)			
STATION T	O STATION	LOCATION	LINES (LF)	LINE (LF)	LANE LINES (LF)	RT	LT		
1+07	3+33	E LEES SUMMIT ROAD	565	435			3		
4+32	7+08	E LEES SUMMIT ROAD	770	550			4		
7+08	9+25	E LEES SUMMIT ROAD	432	417	104		2		
9+25	12+23	E LEES SUMMIT ROAD	595	595	149		2		
13+42	16+18	E LEES SUMMIT ROAD	772	553			4		
16+18	17+16	E LEES SUMMIT ROAD	196	276	69				
TOTALS		3330	2826	322	0	15			

CIVIL ENGINEERING

JEREMY SCOTT

STRETZ

NUMBER

PE-2017023856

7/21/2020

JEREMY S. STRETZ MO# 2017023856

ВУ					
REVISIONS DESCRIPTION					REVISIONS
DATE					
NO. REV.					
				Ι.	_

GENERAL NOTE:

1. ALL LONGITUDINAL MARKINGS (E.G. LANE LINES) SHALL BE HIGH—BUILD PAINT, AND ALL SYMBOLS, DIAGONALS, STOP LINES SHALL BE PRE—FORMED THERMOPLASTIC MATERIAL TO ACCORDING TO CITY OF LEE'S SUMMIT STANDARDS AND SPECIFICATIONS.

 drawn by:
 JRC

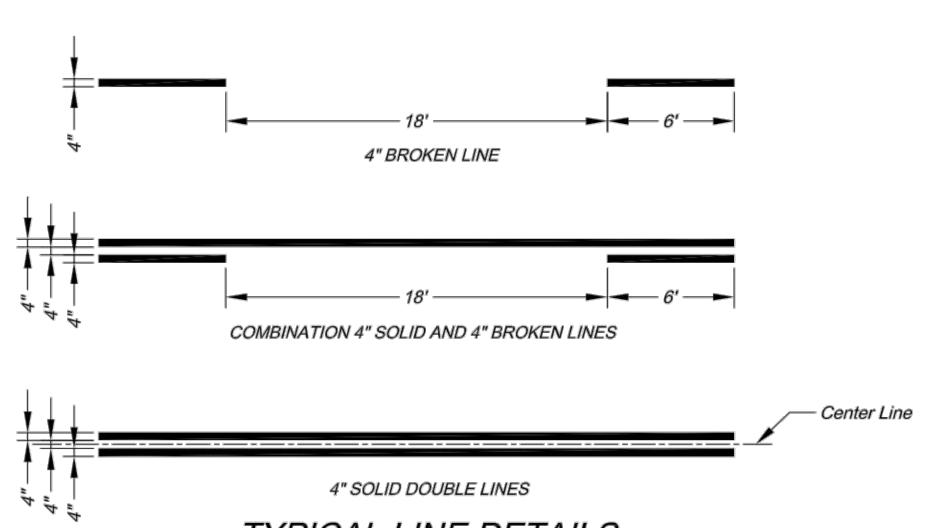
 checked by:
 JSS

 designed by:
 JSS

 QA/QC by:
 JSS

 project no.:
 019-0012-B

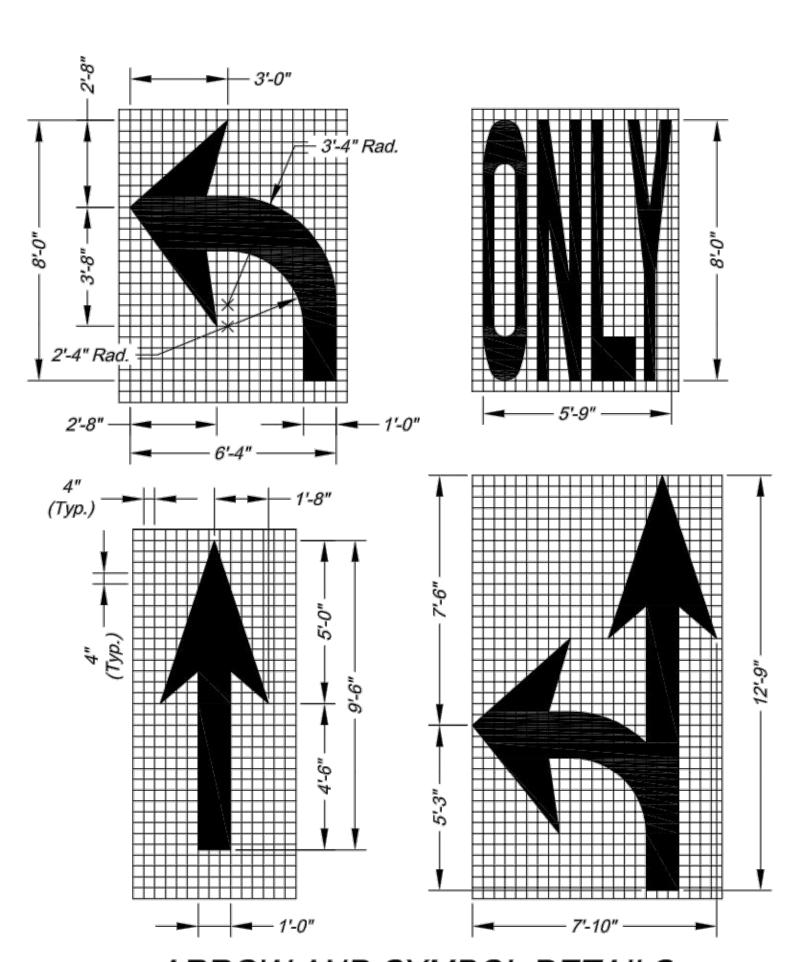
 date:
 2020.06.12



TYPICAL LINE DETAILS

NOTES:

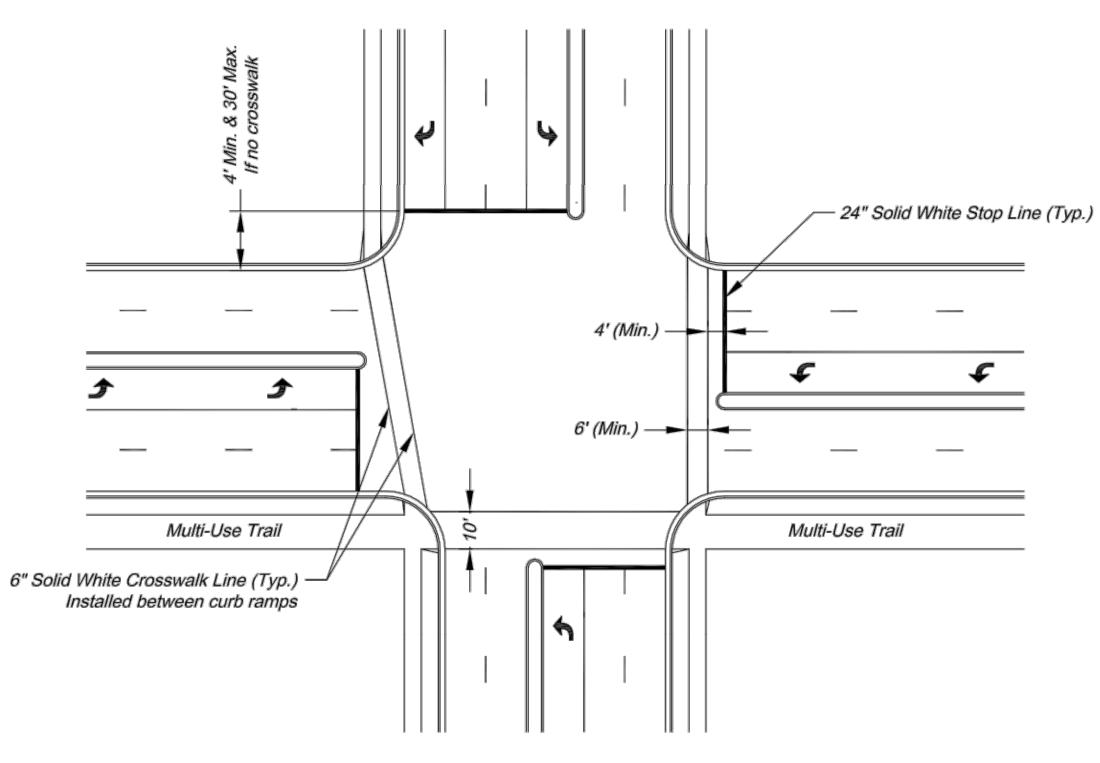
- 1. All edge line, center line, and lane line pavement markings shall be 4" wide unless otherwise noted.
- Edge lines shall be continuous solid white or yellow lines. Right side edge lines shall be solid white.
 Median or left side edge lines on divided roadways are to be solid yellow. Edge lines and center
 lines shall be continuous across driveways.



ARROW AND SYMBOL DETAILS

NOTES.

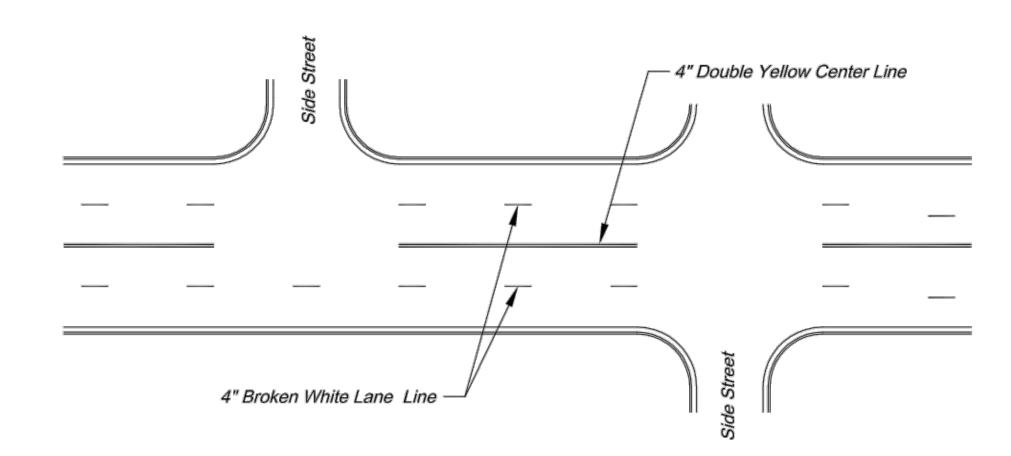
- 1. All arrow and symbol markings shall be white, and shall be centered in their respective traffic lanes.
- 2. Right-turn and combination right-turn/straight arrows are reverse of arrows shown.



TYPICAL INTERSECTION MARKINGS

NOTES:

- Transverse crosswalk lines shall be installed such that the distance between lines is at least 6 or 10 feet.
- Stop lines are required at signalized intersections, on multi-lane stop controlled approaches, or in front of crosswalks at controlled intersections.



TYPICAL MARKINGS FOR FOUR-LANE UNDIVIDED ROADWAY

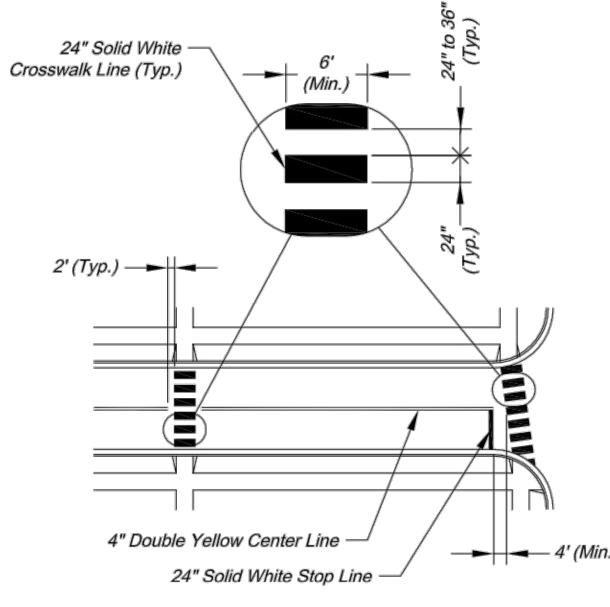
4" Solid Double Yellow Center Lines A" Median

TYPICAL MEDIAN NOSE CENTER LINE DETAIL

PAVEMENT MARKING GENERAL NOTES:

- 1. All pavement markings shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
- 2. All words and symbols shall conform to the latest edition of Standard Alphabets for Highway Signs and Pavement Markings
- printed by the U.S. Department of Transportation, Federal Highway Administration.

 3. Pavement markings, either temporary or permanent are required at all times if the roadway is open to traffic.
- 4. All pavement markings that conflict with the desired markings shall be completely removed. Removals shall not leave the road surface scarred with an image that misleads traffic. Any excess damage or scarring of pavement shall be repaired at the Contractor's expense.
- 5. The proposed permanent markings shall be laid out by the Contractor in advance of the marking installation. Markings shall not be applied until the layout has been approved by the City Traffic Engineer.
- 6. Center lines shall be marked on all undivided arterial streets, and any other undivided street with more than two lanes and/or a speed limit of 30 mph or more.
- 7. Edge lines shall be marked on all non-curbed streets.

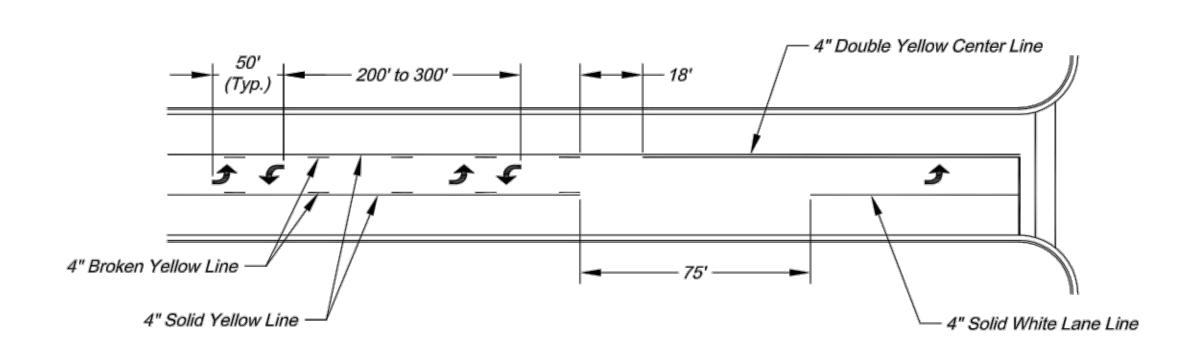


TYPICAL MIDBLOCK OR SCHOOL CROSS WALK

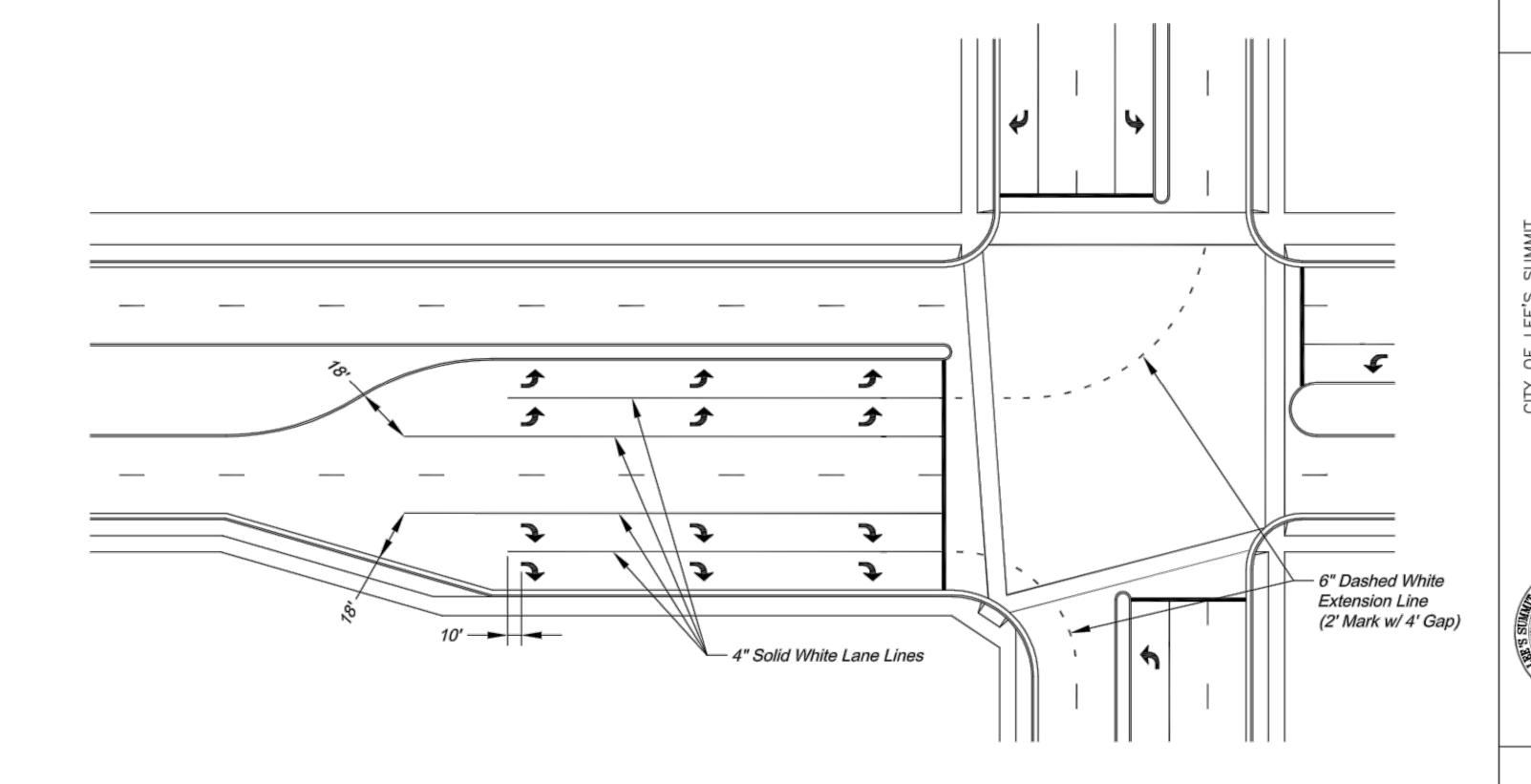
Y MARKING DETAILS

ROADWAY

Drawn By: AS
Checked By: JW
Date: 09/09/2009
Project#

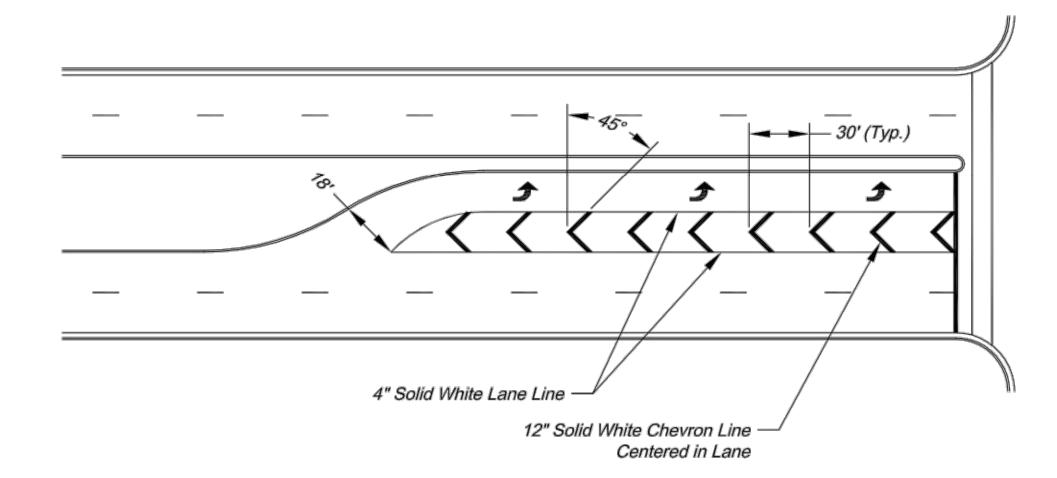


TYPICAL MARKINGS FOR TWO-WAY LEFT-TURN LANE

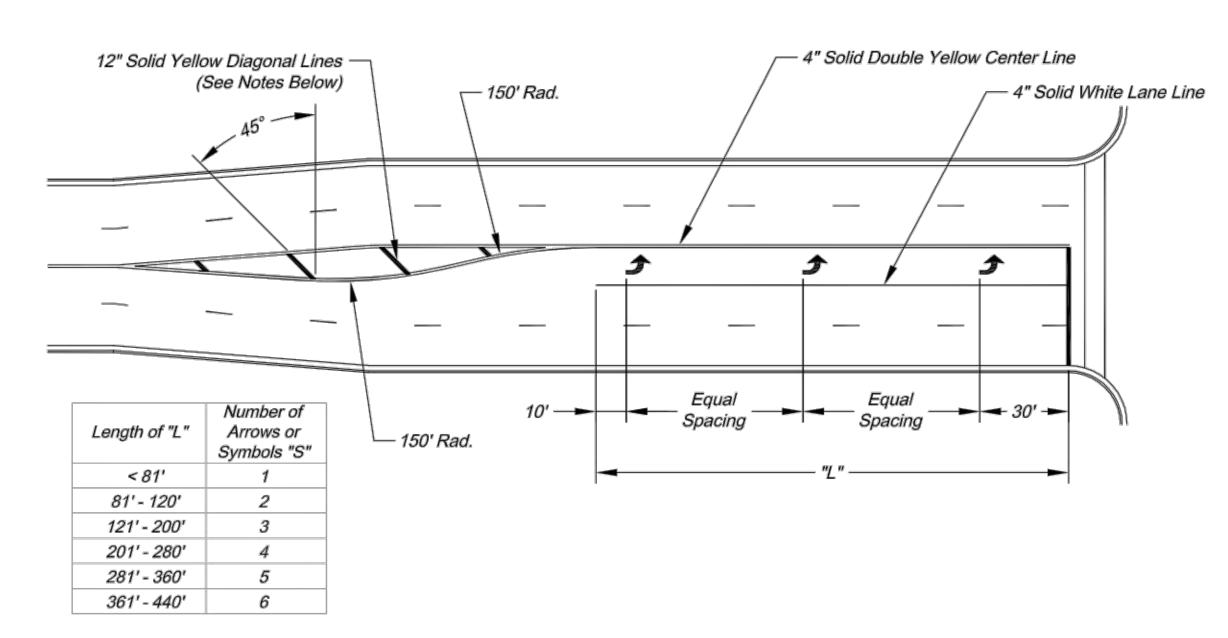




1. Dashed extension lines shall not extend through crosswalks.



TYPICAL STRIPED OUT TURN LANE MARKINGS



TYPICAL TURN LANE MARKINGS

- 1. Diagonal lines are required between centerlines if the width of the area between the center lines is

- greater than 12' and/or the length of the area between center lines is greater than 250'.

 Diagonal lines should be spaced at 5' increments, equal to the posted speed limit.

 Equal Spacing is calculated as (L 40) / (S 1).

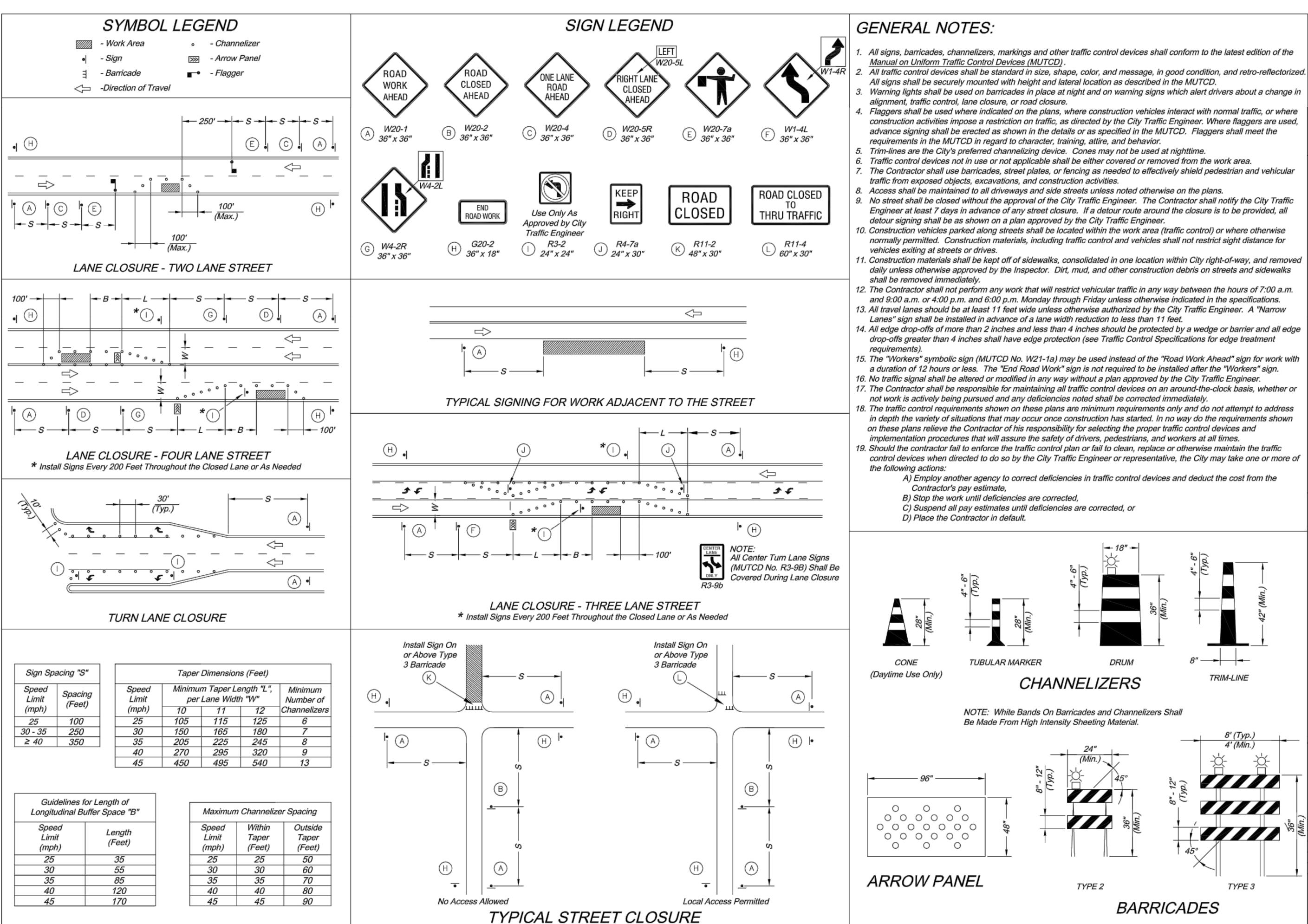
 When a through lane of traffic terminates as a mandatory turn lane, Arrow and "ONLY" symbols should be marked in the turn lane, in alternating order. The first and last symbols should be Arrows.

MARKING

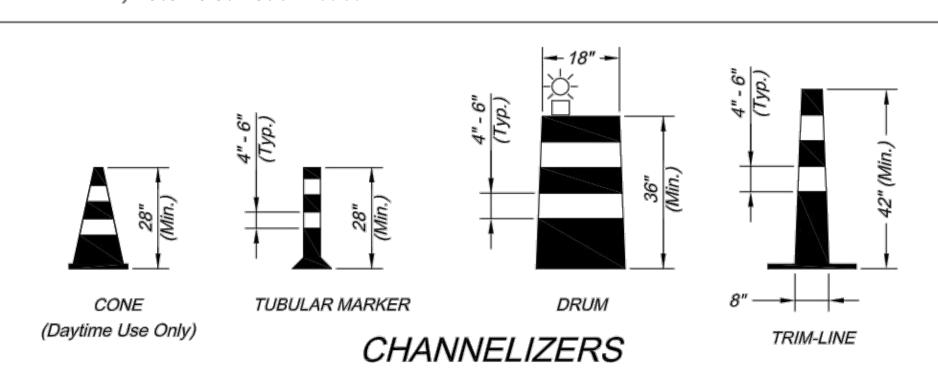
INTERSE(

Drawn By: AS Checked By: JW Date: 09/09/2009

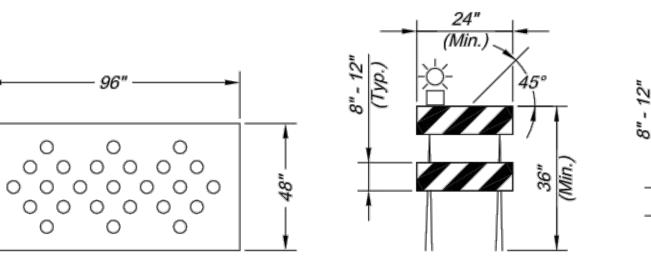
Project#



- All signs, barricades, channelizers, markings and other traffic control devices shall conform to the latest edition of the
- All signs shall be securely mounted with height and lateral location as described in the MUTCD. Warning lights shall be used on barricades in place at night and on warning signs which alert drivers about a change in
- Flaggers shall be used where indicated on the plans, where construction vehicles interact with normal traffic, or where construction activities impose a restriction on traffic, as directed by the City Traffic Engineer. Where flaggers are used, advance signing shall be erected as shown in the details or as specified in the MUTCD. Flaggers shall meet the
- 5. Trim-lines are the City's preferred channelizing device. Cones may not be used at nighttime.
- 6. Traffic control devices not in use or not applicable shall be either covered or removed from the work area.
- 7. The Contractor shall use barricades, street plates, or fencing as needed to effectively shield pedestrian and vehicular
- 8. Access shall be maintained to all driveways and side streets unless noted otherwise on the plans.
- 9. No street shall be closed without the approval of the City Traffic Engineer. The Contractor shall notify the City Traffic Engineer at least 7 days in advance of any street closure. If a detour route around the closure is to be provided, all
- 10. Construction vehicles parked along streets shall be located within the work area (traffic control) or where otherwise normally permitted. Construction materials, including traffic control and vehicles shall not restrict sight distance for
- daily unless otherwise approved by the Inspector. Dirt, mud, and other construction debris on streets and sidewalks
- 12. The Contractor shall not perform any work that will restrict vehicular traffic in any way between the hours of 7:00 a.m. and 9:00 a.m. or 4:00 p.m. and 6:00 p.m. Monday through Friday unless otherwise indicated in the specifications.
- 13. All travel lanes should be at least 11 feet wide unless otherwise authorized by the City Traffic Engineer. A "Narrow Lanes" sign shall be installed in advance of a lane width reduction to less than 11 feet.
- 14. All edge drop-offs of more than 2 inches and less than 4 inches should be protected by a wedge or barrier and all edge drop-offs greater than 4 inches shall have edge protection (see Traffic Control Specifications for edge treatment
- 15. The "Workers" symbolic sign (MUTCD No. W21-1a) may be used instead of the "Road Work Ahead" sign for work with
- a duration of 12 hours or less. The "End Road Work" sign is not required to be installed after the "Workers" sign. 16. No traffic signal shall be altered or modified in any way without a plan approved by the City Traffic Engineer.
- 17. The Contractor shall be responsible for maintaining all traffic control devices on an around-the-clock basis, whether or not work is actively being pursued and any deficiencies noted shall be corrected immediately.
- in depth the variety of situations that may occur once construction has started. In no way do the requirements shown on these plans relieve the Contractor of his responsibility for selecting the proper traffic control devices and implementation procedures that will assure the safety of drivers, pedestrians, and workers at all times.
- 19. Should the contractor fail to enforce the traffic control plan or fail to clean, replace or otherwise maintain the traffic control devices when directed to do so by the City Traffic Engineer or representative, the City may take one or more of
 - A) Employ another agency to correct deficiencies in traffic control devices and deduct the cost from the
 - C) Suspend all pay estimates until deficiencies are corrected, or



NOTE: White Bands On Barricades and Channelizers Shall Be Made From High Intensity Sheeting Material.



TYPE 3

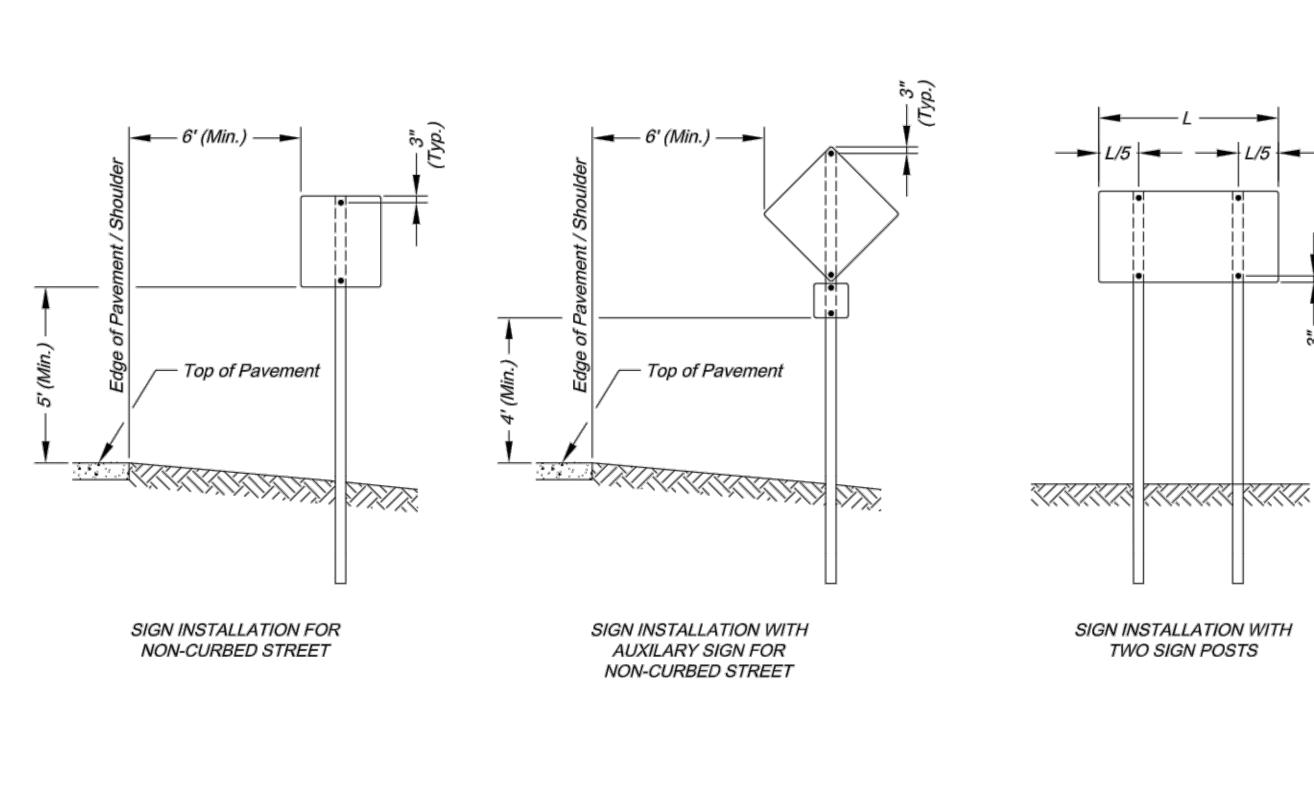
BARRICADES

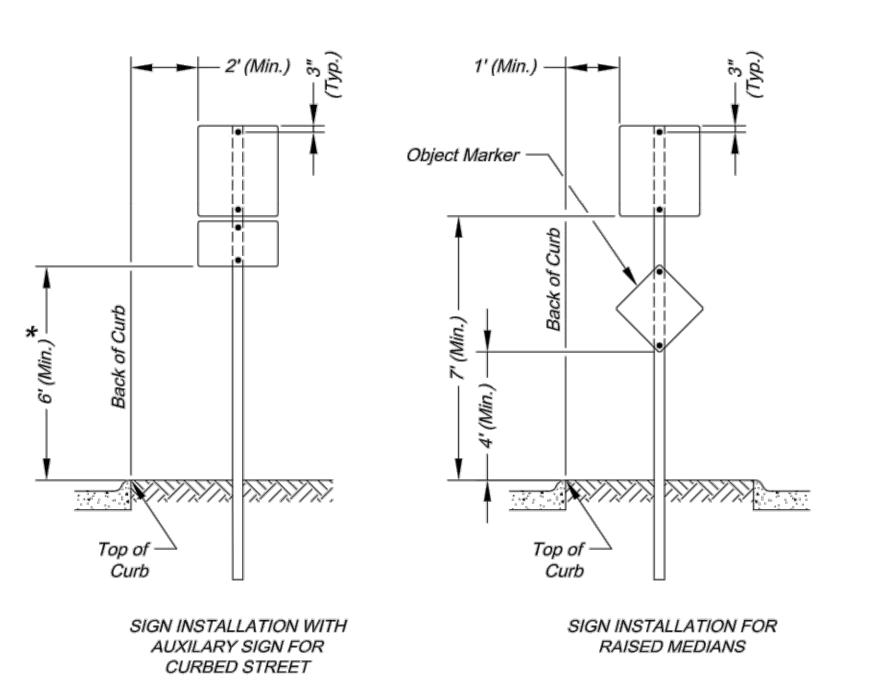
CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
: (816) 969-1800 FAX: (816) 969-7 S DEF.

> AIL CONTROL

TRAFFIC

Drawn By: JJW Checked By: MP Date: 12-10-2008 Project No.: X





TWO SIGN POSTS

SIGN MOUNTING DETAILS

* The height to the bottom of a sign when it is located in a pedestrian walkway or extends into a walkway shall be a minimum of 80 inches above the walkway.

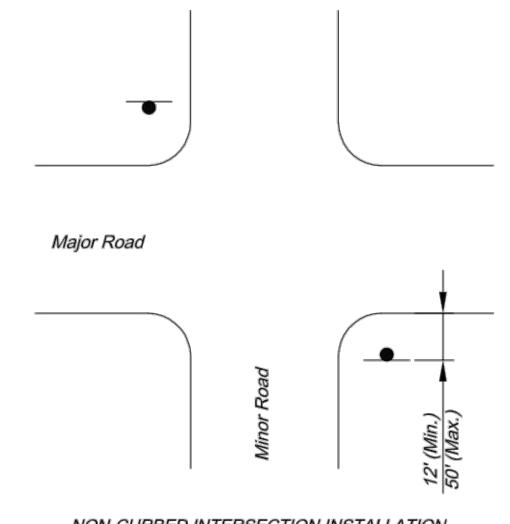
2' (Min.) ₺ ê

SIGN INSTALLATION FOR

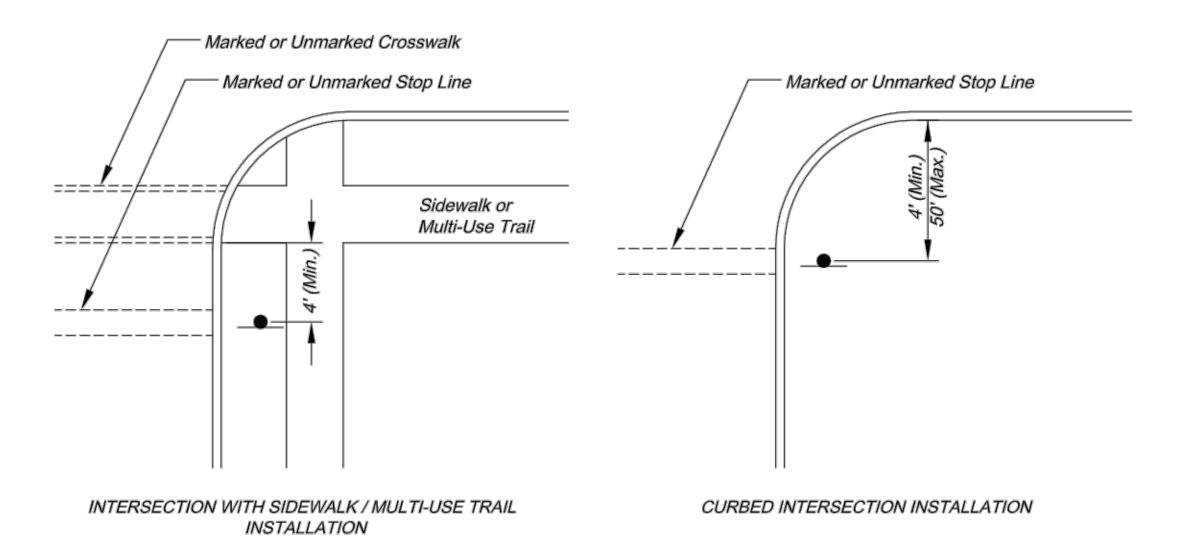
CURBED STREET

Top of \rightharpoonup

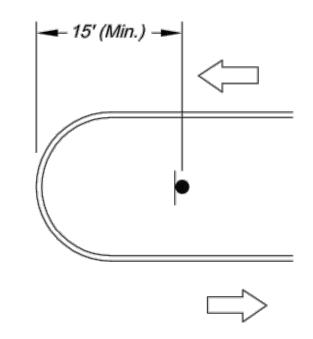
1. Generally, the sign mounting height should not be more than 1' greater than the minimum mounting height.



NON-CURBED INTERSECTION INSTALLATION



CONTROL SIGN LOCATION



TYPICAL MEDIAN SIGN LOCATION

MEDIAN SIGN LOCATION

NOTES:

- 1. A 4" P.V.C. sleeve shall be installed in new concrete medians at each location where a sign is to be installed.
- 2. For existing concrete medians, a 4" hole shall be cored into the concrete.



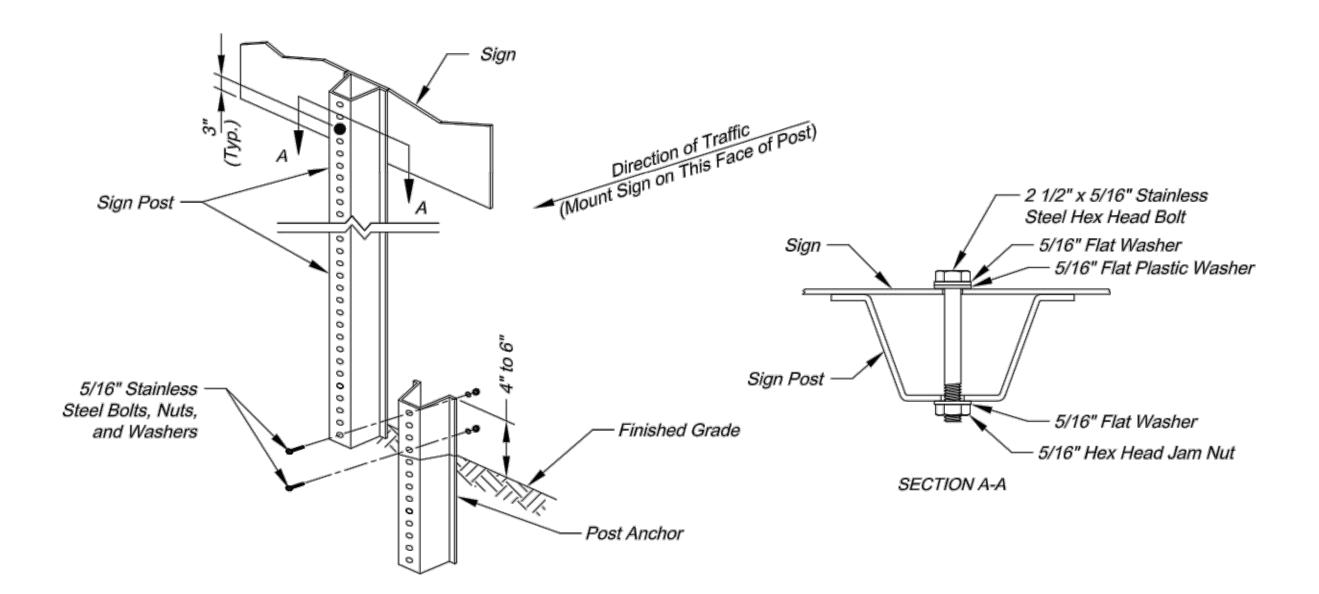
TAIL MOUNTING

S

SIGN

Drawn By: AS Checked By: JW Date: 08/26/2009 Project#

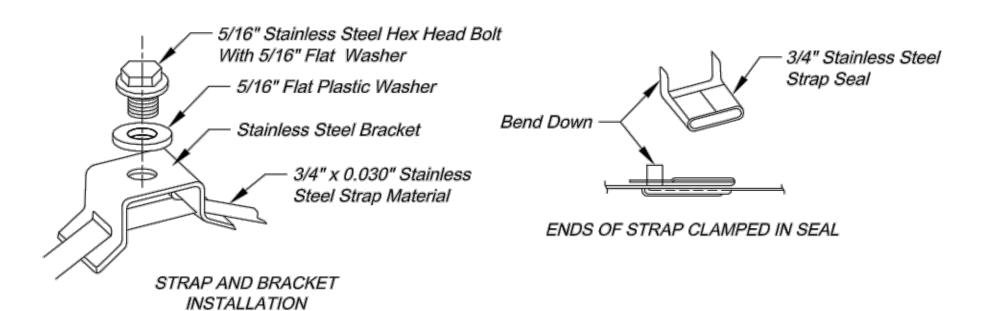
1 OF 3



U-STEEL POST DETAILS

U-STEEL POST NOTES:

- 1. Splice shall be positioned entirely between finished grade line and 18" above finished grade line. Only one splice will be allowed per post.
- 2. U-Steel post shall be 3 lb./ft., galvanized according to ASTM A123. 3. U-Steel post can be used for installation of signs with an area of less
- than 2.5 square feet. 4. All posts shall be embedded a minimum of 3 feet.



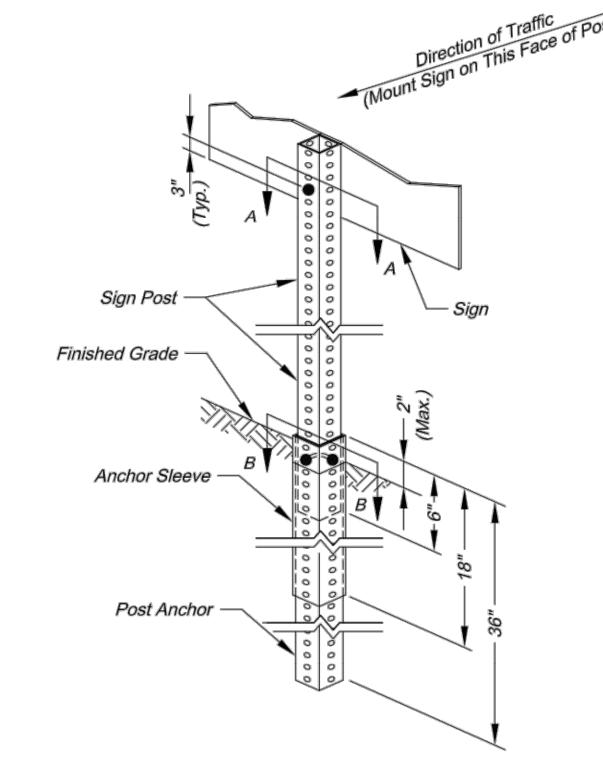
STRAP TYPE SIGN SUPPORT DETAILS

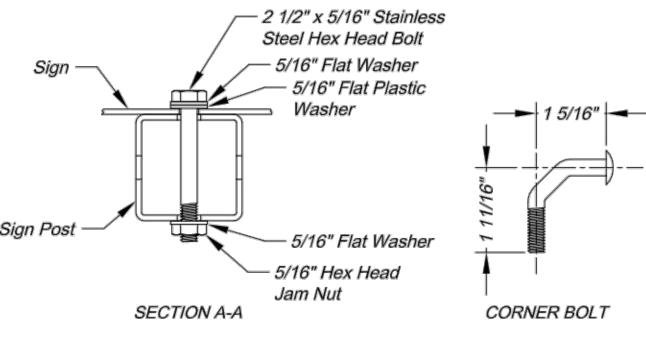
METAL POLE SIGN MOUNTING NOTES:

- Signs on metal poles shall be attached with two brackets and stainless steel bands.
- 2. Holes in sign for attachment to the mounting brackets shall be offset a minimum of 2 inches from the edge of the sign.
- 3. Holes in sign shall be located such that the sign is level.
- 4. All strap, bracket, and seal materials should be Type 201 stainless steel.

PERMANENT SIGNING GENERAL NOTES:

- 1. All signing shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
- 2. The Contractor is responsible for avoiding any and all utilities when installing sign posts, whether the utility is indicated on the plans or not.
- 3. All workmanship and materials shall be subject to the inspection and approval of the Public Works Department of the City of Lee's Summit. 4. The Contractor shall stake the location of all sign posts to be installed. The City Inspector shall inspect the staking prior to installation.
- Minor relocation to avoid conflicts may be allowed with the approval of the City Traffic Engineer or designee.
- 5. Signs shown to be installed on the side of metal poles shall be mounted with stainless steel straps or wing brackets as detailed. No signs are to be installed on wood poles. See Traffic Signal Standard Drawings for the installation of signs on mast arms.
- 6. All post mounted signs shall be installed with breakaway anchors according to the Standard Drawings.
- 7. All existing signs will be used in place during construction and protected from damage unless otherwise indicated in the plans. If the Contractor damages any existing sign or posts during construction, the Contractor will be required to replace the damaged materials with new signs or posts of the same type and size at the Contractor's expense. The Contractor shall be responsible for removing and storing any signs that are to be reinstalled on the project. All equipment shall be reinstalled in good condition.
- 8. Existing permanent signs and posts removed by the Contractor for construction purposes which are not to be reinstalled shall be delivered to the City's Public Works Maintenance Facility (1971 SE Hamblen Road). The Contractor shall be responsible for removing and storing equipment in good condition and is fully responsible for the equipment until it is delivered.
- 9. All Stop, Yield, or street name signs shall be maintained in a conspicuous location for the driving public. All Stop and Yield signs removed for construction purposes can be temporarily erected in reflectorized drums (no less than 7 feet above the pavement surface) until they can be reinstalled. Any temporary Stop or Yield sign installation to be left in place overnight will require prior approval from the City Inspector.





SQUARE STEEL POST INSTALLATION SEQUENCE:

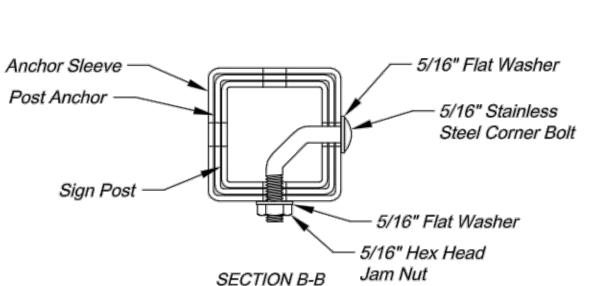
a drive cap with a sledge or power equipment.

ground together with the sign post anchor.

1. Sign post anchor driven partially into the ground using

2. Anchor sleeve slipped over anchor and drive into the

3. Insert sign post into the post anchor and bolt in place.



SQUARE STEEL POST DETAILS

SQUARE STEEL POST NOTES:

1. Square steel sign posts and break-away anchor shall consist of the following materials:

14 Ga. 2" x 2" Square Steel Post Sign Post -

Post Anchor - 12 Ga. 2 1/4 " x 2 1/4 " x 36" Square Steel Post Anchor Sleeve - 12 Ga. 2 1/2 " x 2 1/2 " x 18" Square Steel Post

- 2. 14 Gauge posts must meet a certified minimum yield strength of 60,000 psi.
- 3. In all installations the first hole above the finished grade line on the sign post, anchor, and anchor sleeve must be in line for the insertion of the corner bolt.
- 4. The maximum area for one sign post is 9.0 square feet. A sign or combination of signs with an area greater than 9.0 square feet will require two posts. Also, signs with a width

greater than 36" (not including 36" x 36" diamond shaped signs) will require two posts.

Date: 08/26/2009 Project#

 \mathcal{O} A DRAWI S \circ \Box

SIGN

Drawn By: AS Checked By: JW

2 OF 3

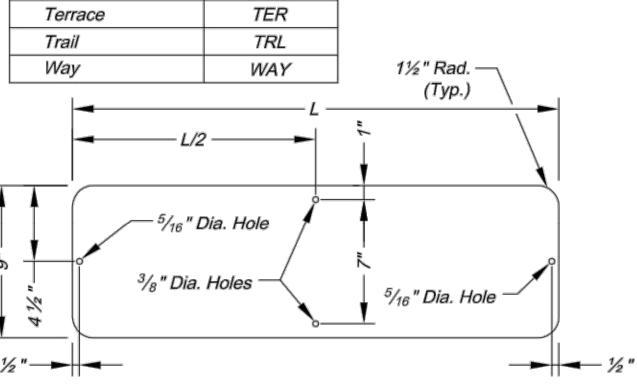
F8

STANDARD ABBREVIATION LISTS

STREET NAME SIGN QUANTITIES

Numbered Streets		Sign Designation	Sign Sizo	Sign Area	Number	Quantity
First	ST	Sign Designation	Sign Size	(Sq. Ft.)	Number	(Sq. Ft.)
Second	ND	D3-1 (SP-1) E LEES SUMMIT RD	9" x 48"	3.00	2	6.00
Third	KD	<u> </u>	3 X 10	3.00		0.00
Fourth to Tenth	TH	D3-1 (SP-2) NE DOUGLAS ST	9" x 48"	3.00	4	12.00
			•			

Named Streets				
Avenue	AVE			
Boulevard	BLVD			
Circle	CIR			
Creek	CR			
Court	CT			
Crossing	XING			
Drive	DR			
Highway	HWY			
Lane	LN			
Parkway	PKWY			
Place	PL			
Road	RD			
Street	ST			
Terrace	TER			
Trail	TRL			
Way	WAY			

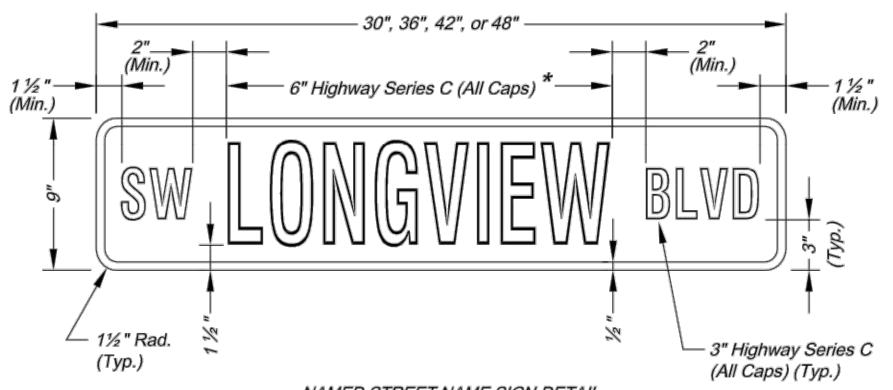


E LEES SUMMIT RD	
D3-1 (SP-1)	D3-1 (SP-4)
DOUGLAS ST D3-1 (SP-2)	D3-1 (SP-5)
D3-1 (SP-3)	D3-1 (SP-6)

PROJECT SIGN DETAILS

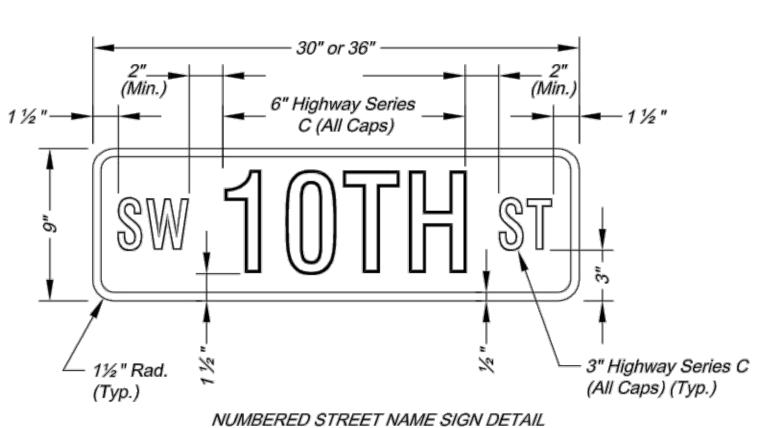
STREET NAME SIGN BLANK DETAILS

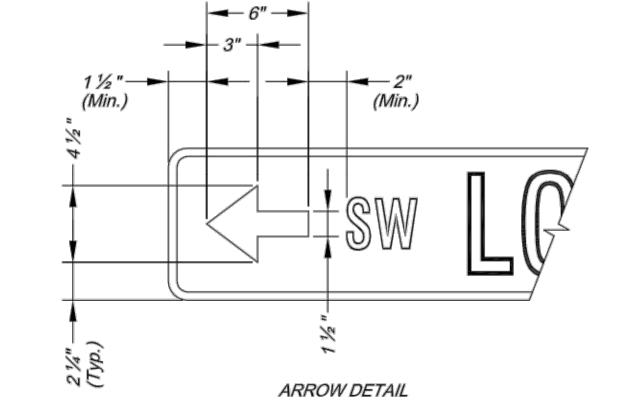
For Mounting on Square Steel Posts

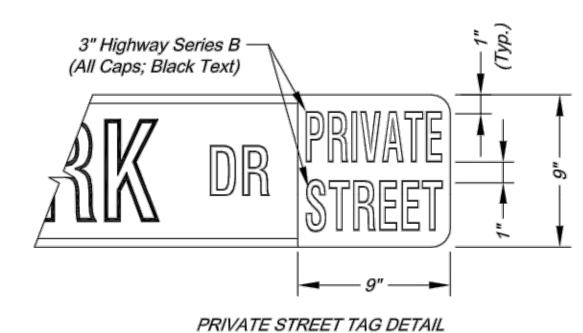


NAMED STREET NAME SIGN DETAIL

* Use Highway Series B (All Caps) in lieu of series C if necesary to fit text on a 36" sign blank.



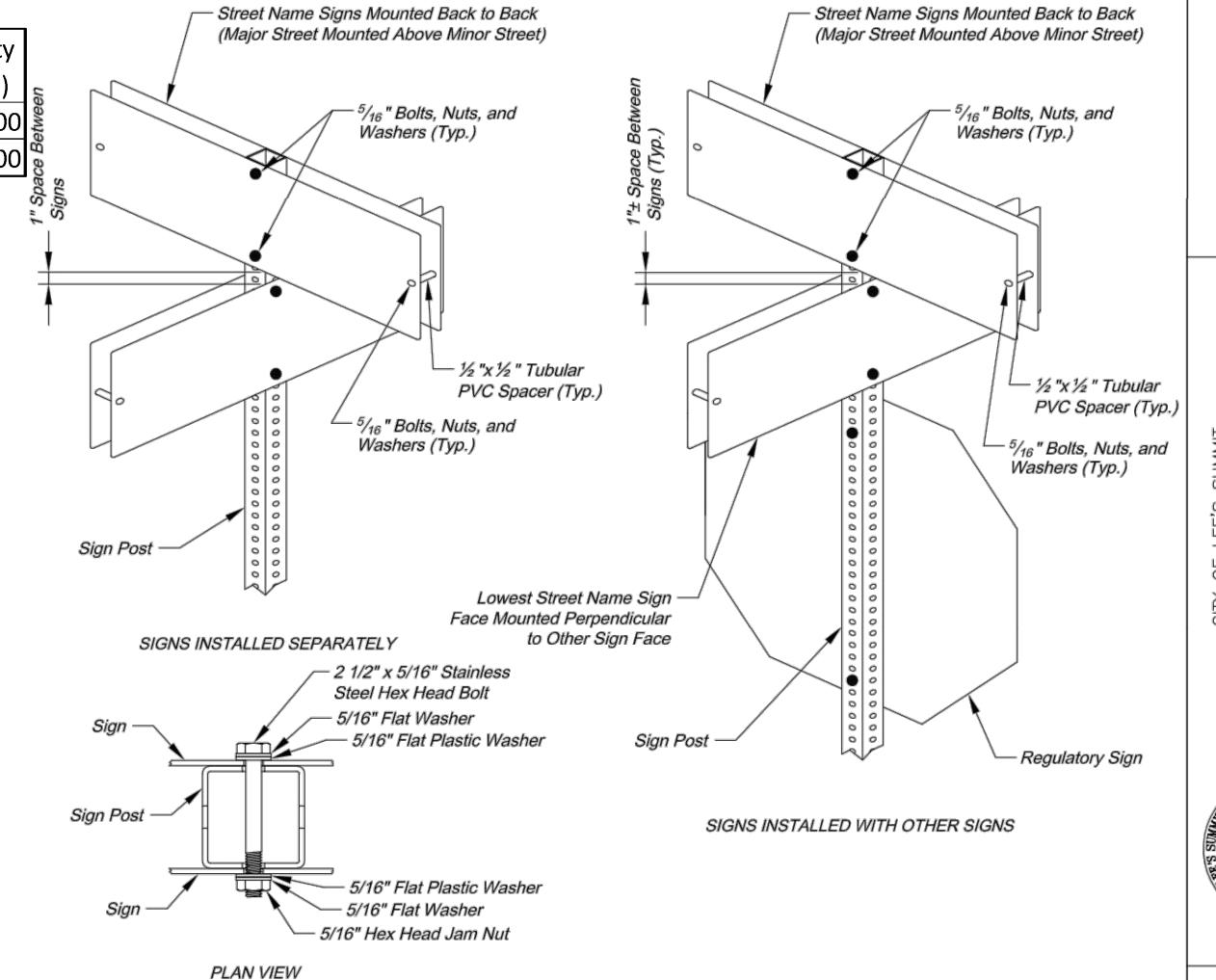




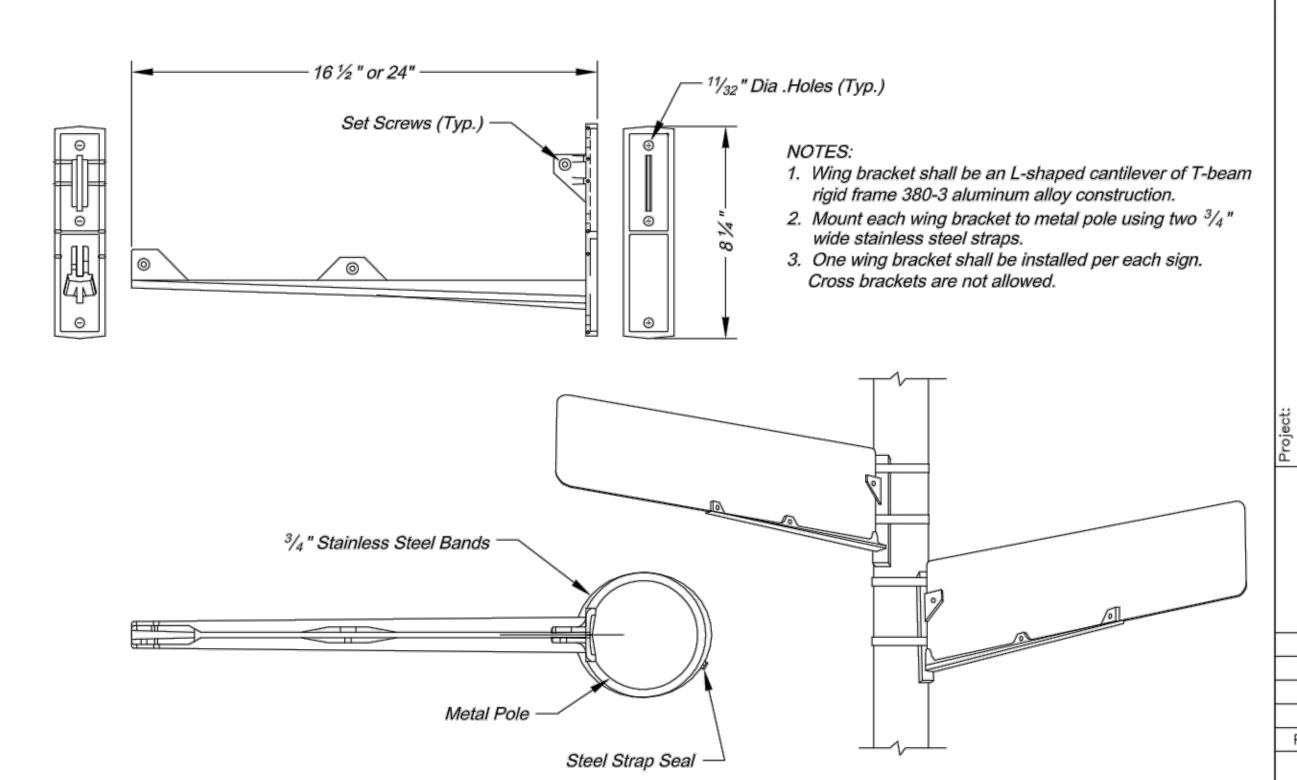
NOTES:

- 1. For all street name signs, the legend shall be white and the background shall
- 2. Arrows shall be added to street name signs where the name of a street changes at an intersection. Street name signs with arrows are to be installed on each side of the intersection to indicate the change in names. Arrows shall be white.
- 3. The "PRIVATE STREET" tag should be added to the end of street name signs to indicate where a street that is outside the right-of-way intersects a public street. The background for the "PRIVATE STREET" tag shall be yellow.

STREET NAME SIGN FACE DETAILS



SQUARE STEEL POST MOUNTING DETAILS



WING BRACKET MOUNTING DETAILS



S

TAIL SIGN NAME

TREE \mathcal{O}

Drawn By: AS Checked By: JW Date: 08/26/2009

Project#

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