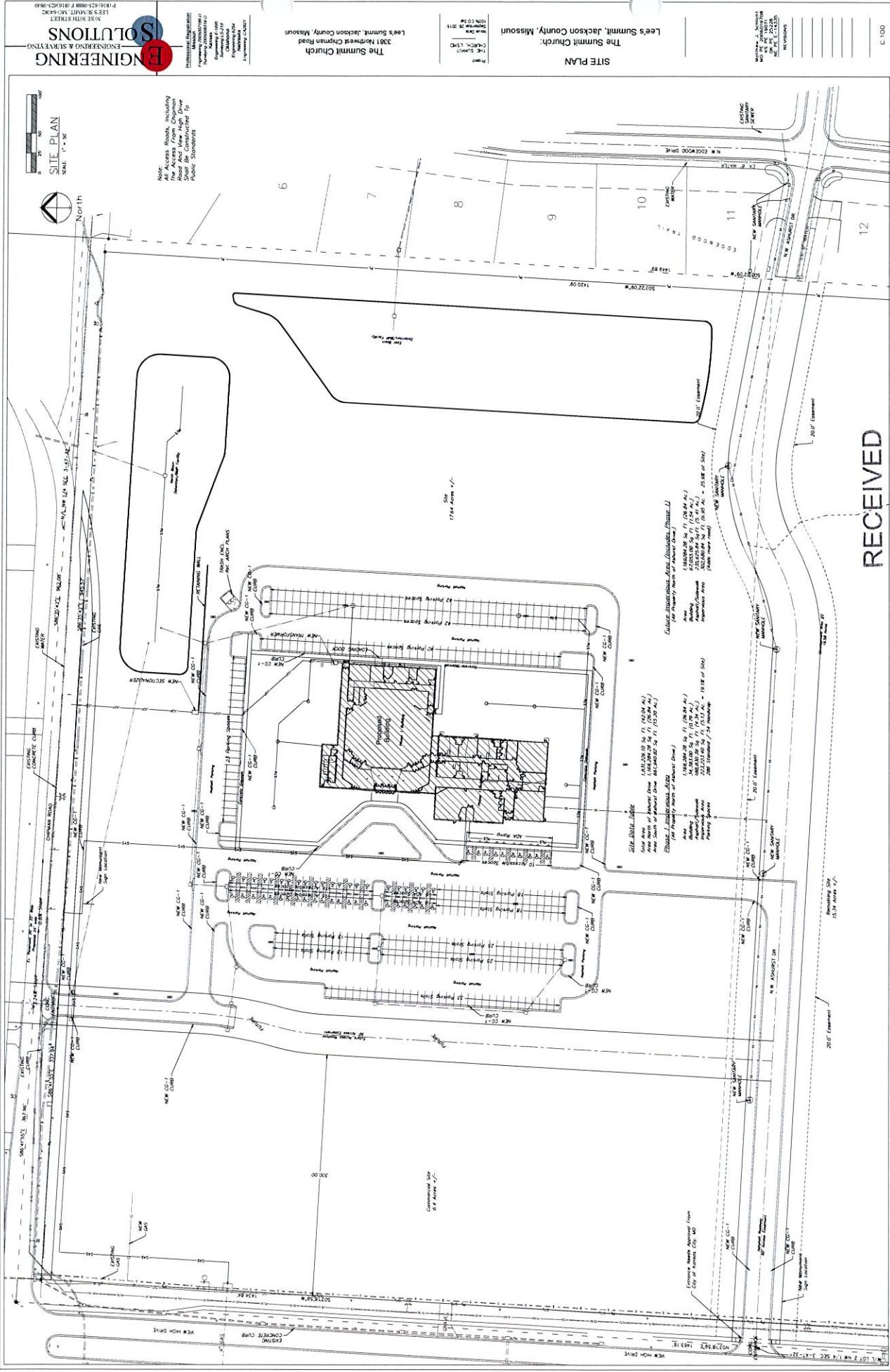


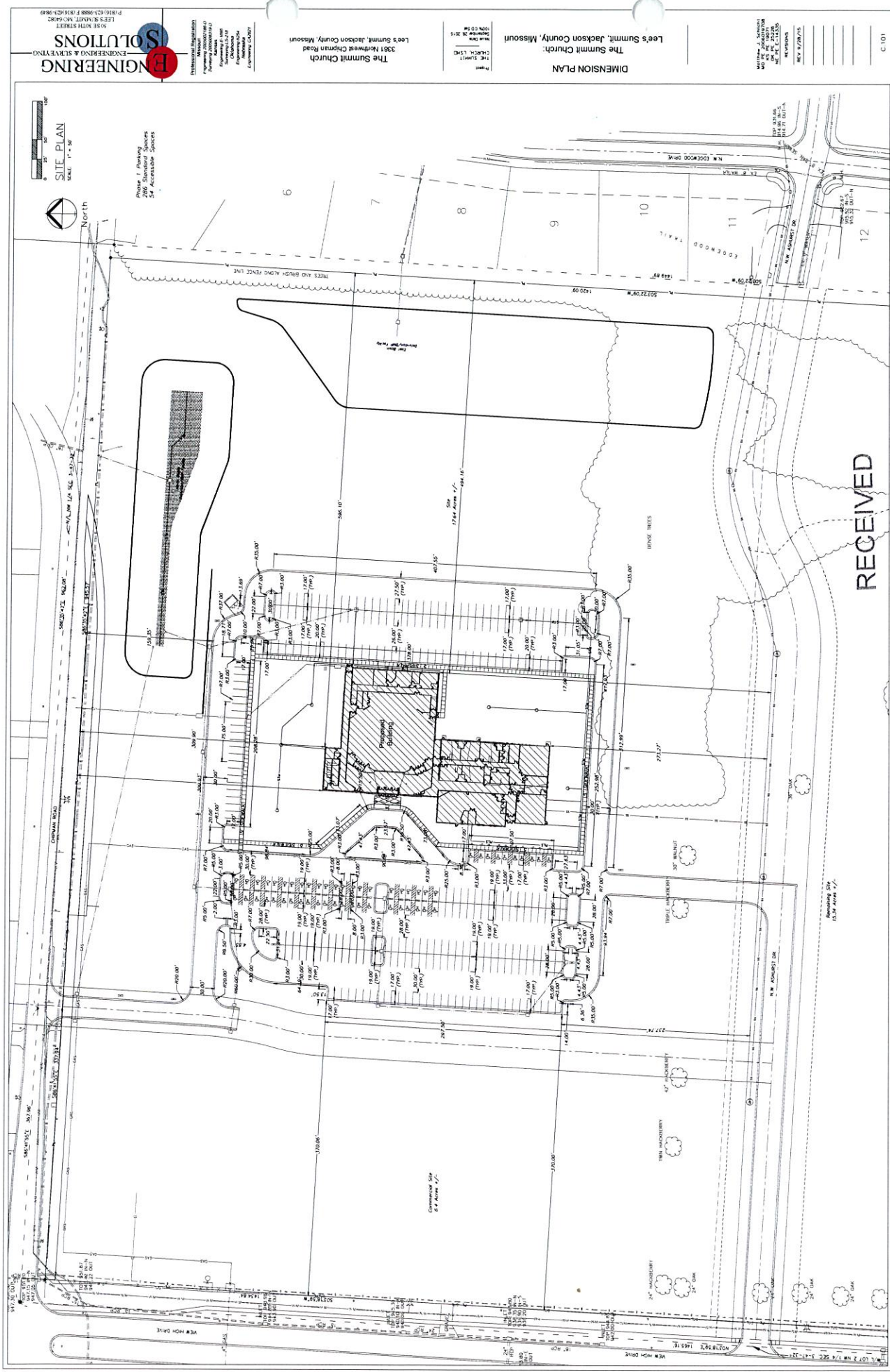


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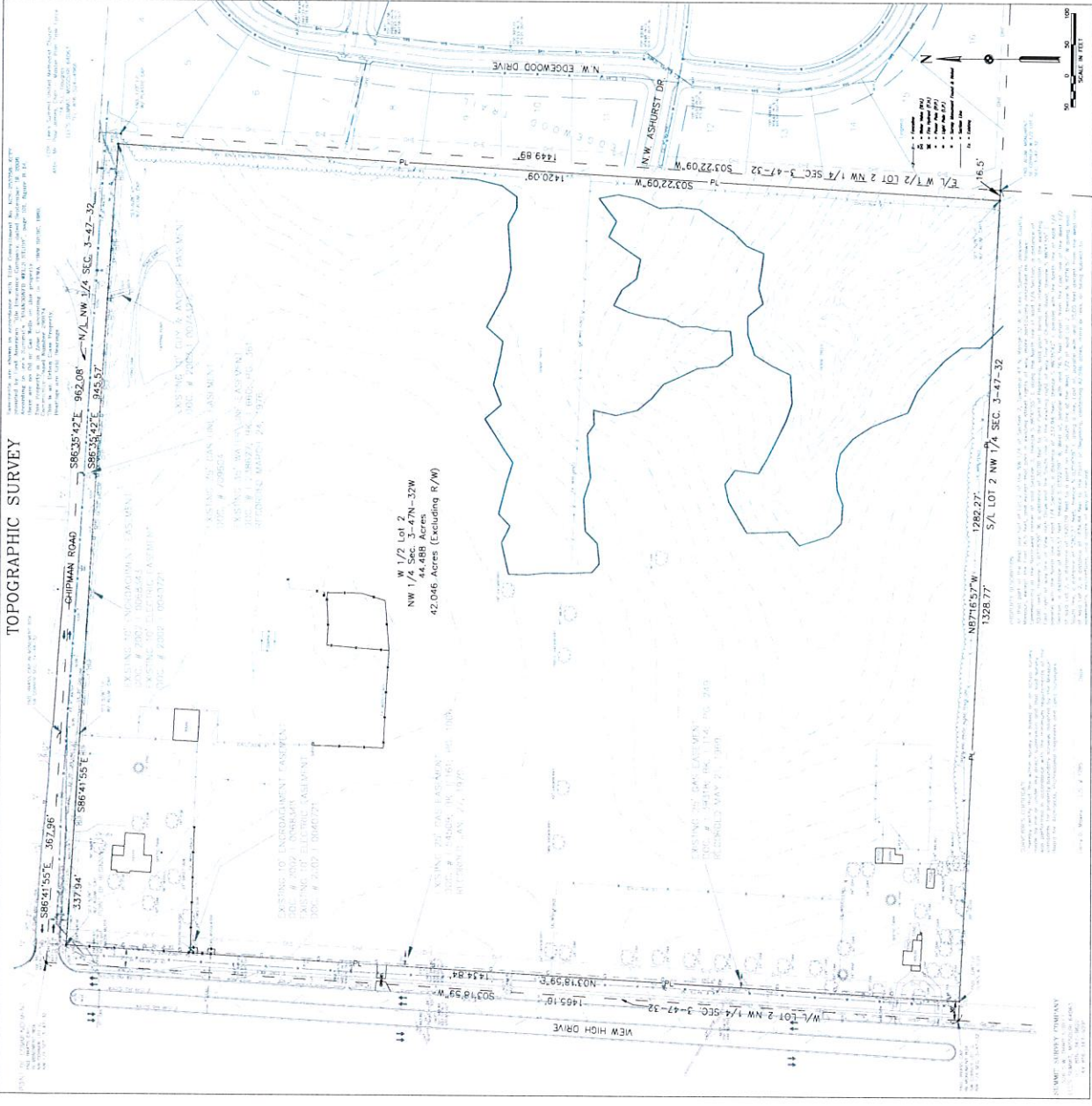
ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
1000 N. 1000 E.
LEE'S SUMMIT, MO 64082
P: (816) 421-8888 F: (816) 421-9849

The Summit Church
3361 Northwest Chapman Road
Lee's Summit, Jackson County, Missouri

The Summit Church, Jackson County, Missouri
The Summit Church, Jackson County, Missouri
The Summit Church, Jackson County, Missouri

Matthew J. Johnson
Professional Engineer
No. 000000000
Exp. 12/31/15
M.E. License
No. 000000000
Exp. 12/31/15
M.E. License
No. 000000000
Exp. 12/31/15
M.E. License

TOPOGRAPHIC SURVEY



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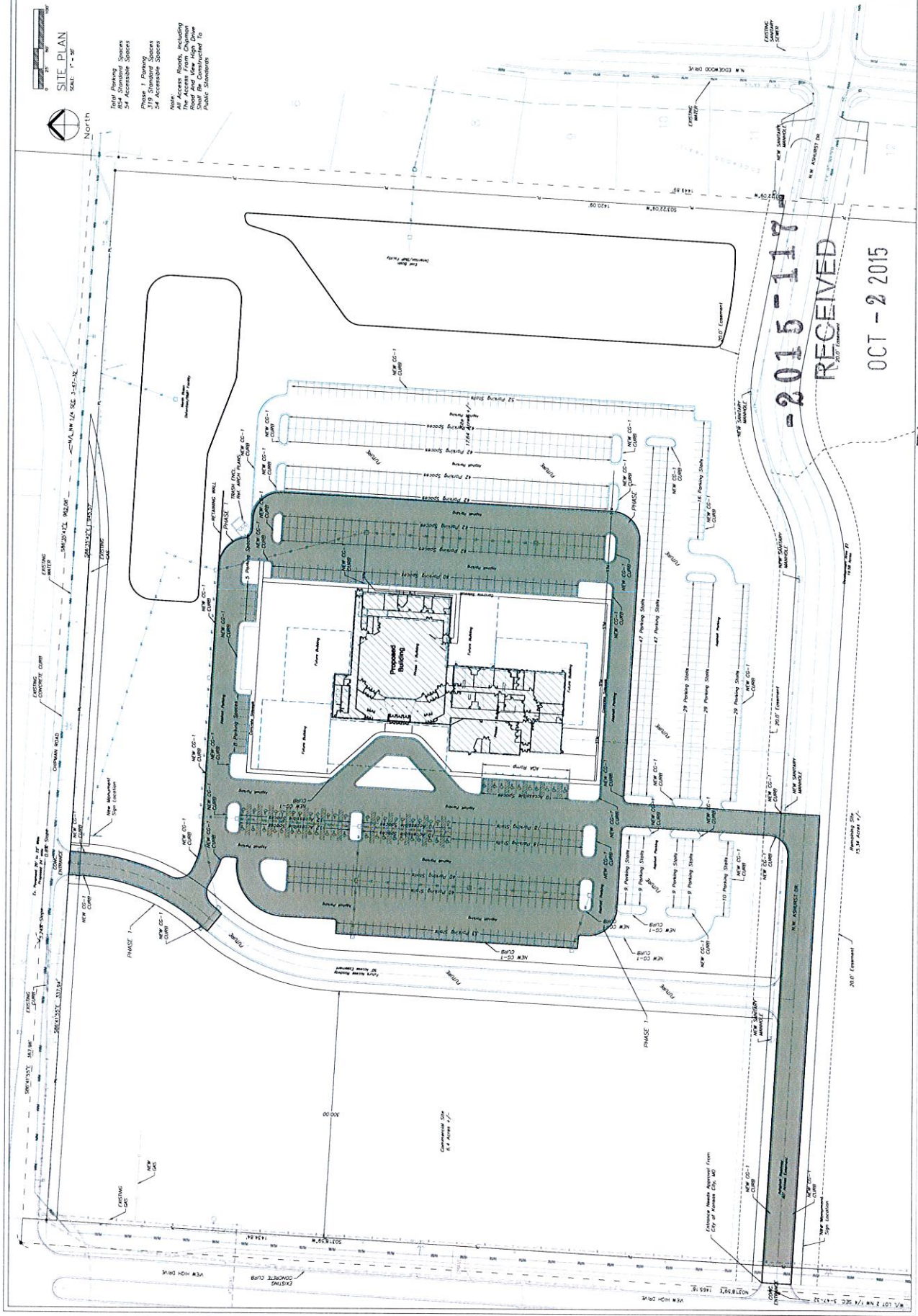
Planning & Codes Admin

The Summit Church
 3381 Northwest Chapman Road
 Lees Summit, Jackson County, Missouri

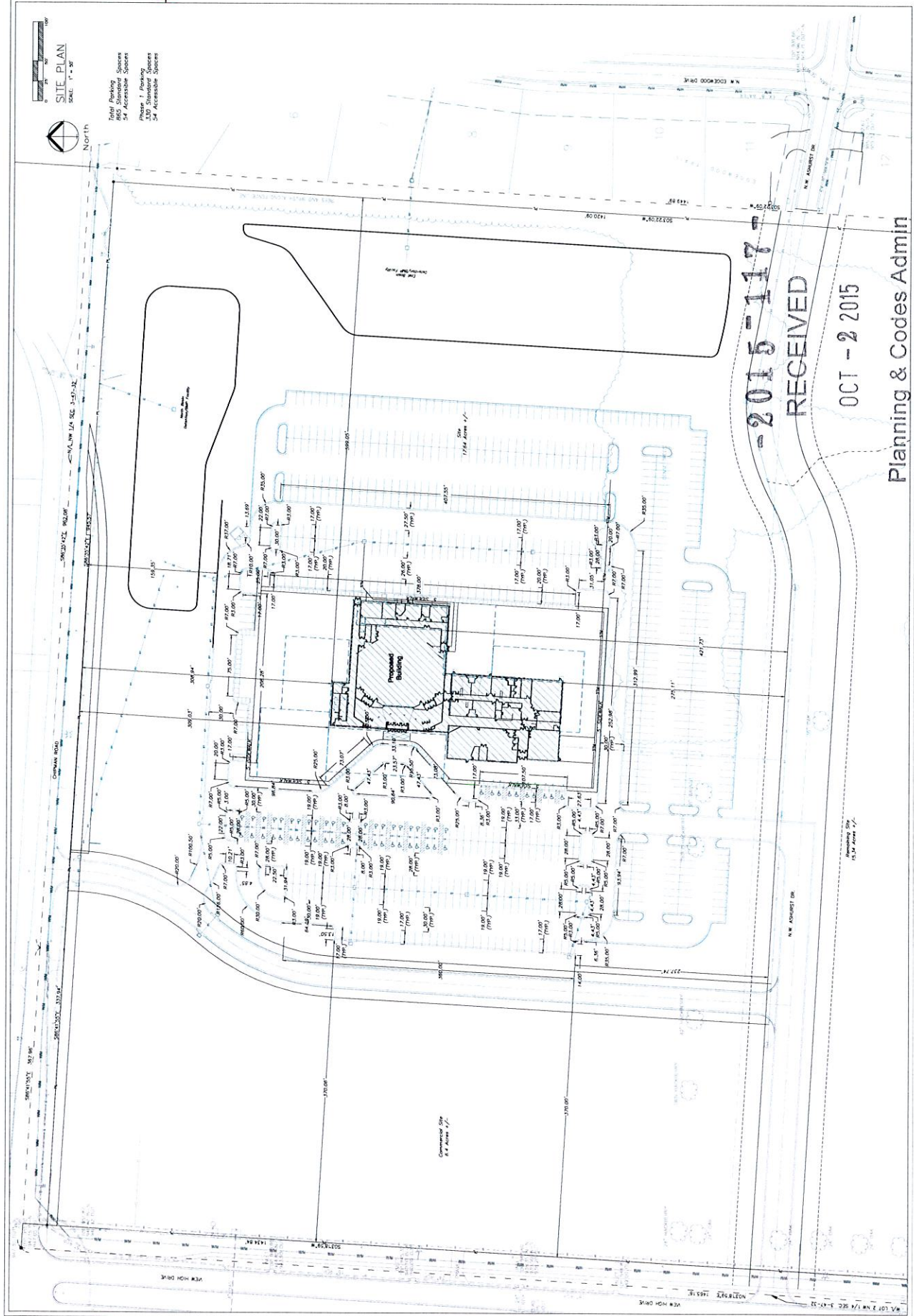
SITE PLAN
 The Summit Church
 Jackson County, Missouri

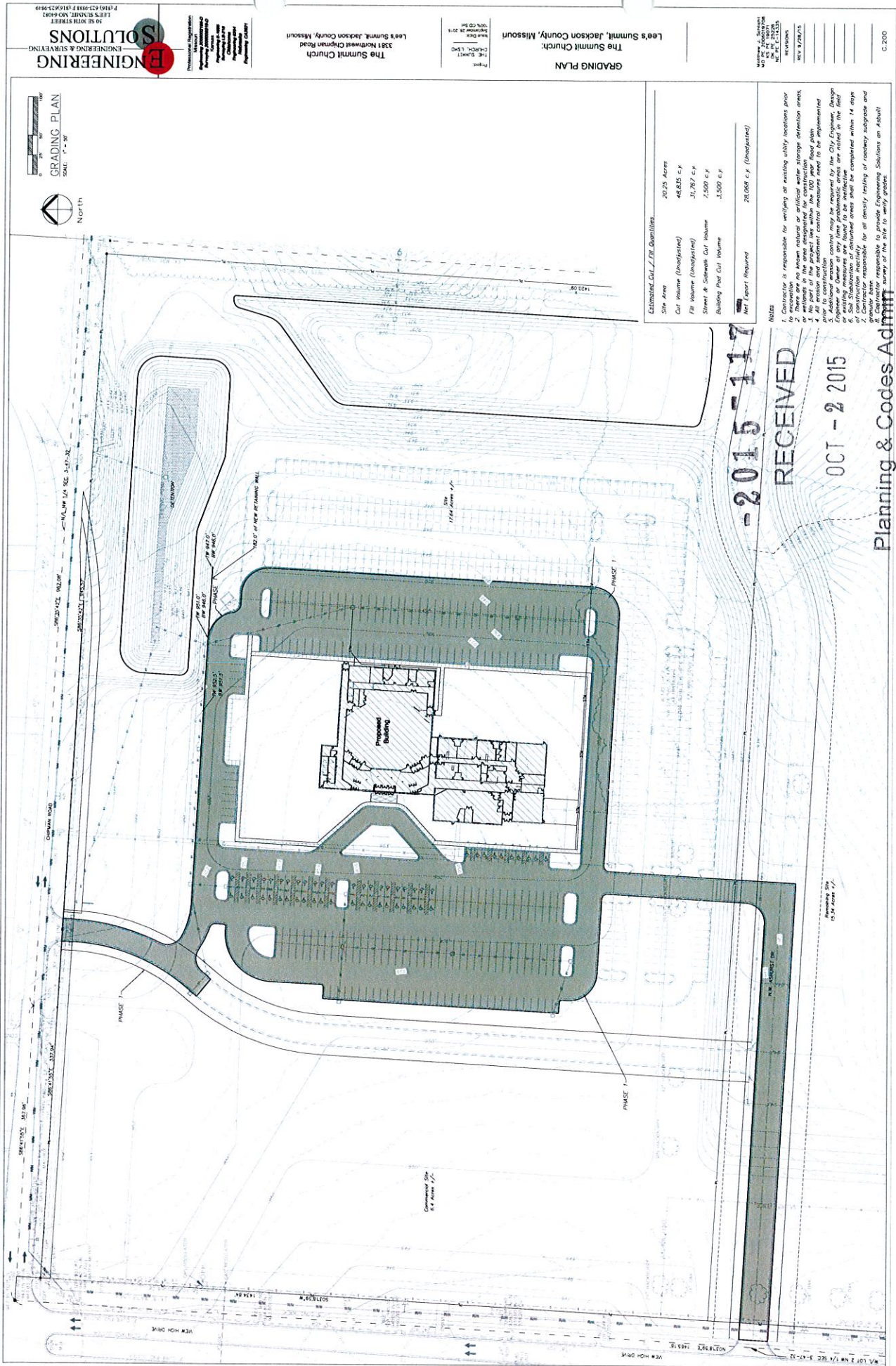
Project:
 Date:
 Scale: 1" = 20'
 Sheet: 20 of 1

C.100



Planning & Codes Admin





Grading Plan
Scale: 1" = 30'



ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
1000 N. 10TH STREET
LEES SUMMIT, MO 64032
P: (816) 221-8888 F: (816) 221-9949

The Summit Church
3381 Northwest Chapman Road
Lees Summit, Jackson County, Missouri

Project:
The Summit Church
Client: LSCM
Scale: 1" = 30'
Date: 10/1/15

Grading Plan
The Summit Church,
Jackson County, Missouri

Estimated Cut / Fill Quantities

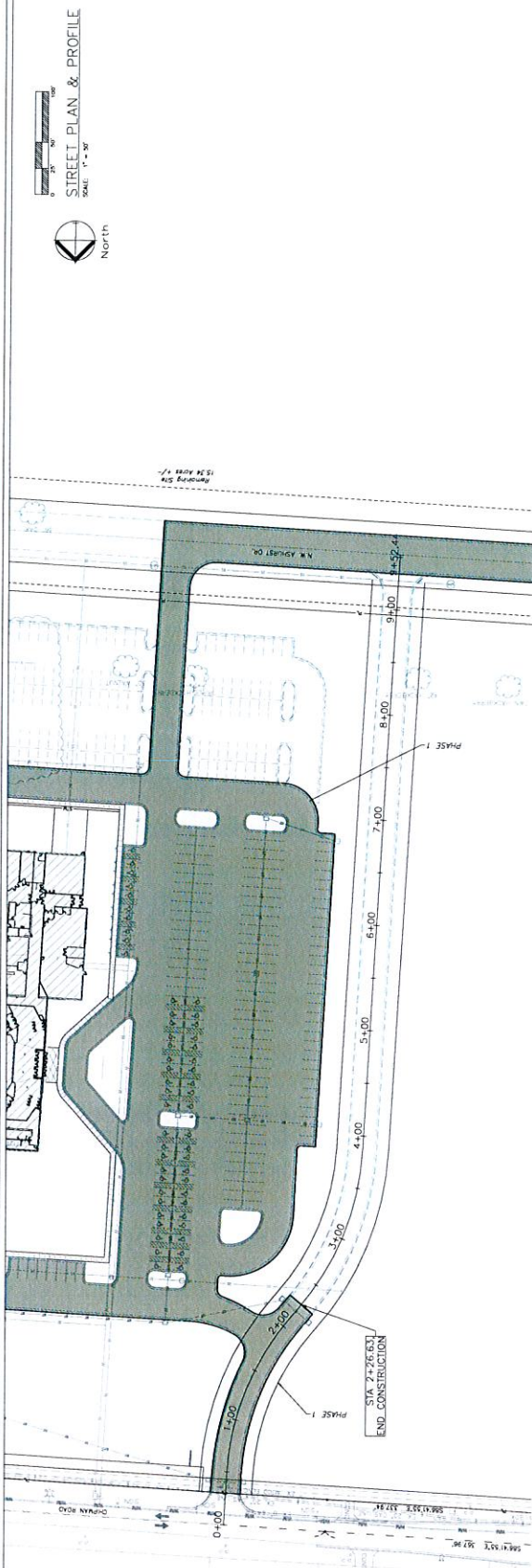
Site Area	20.25 Acres
Cut Volume (Unadjusted)	48,835 c.y.
Fill Volume (Unadjusted)	31,787 c.y.
Street & Sidewalk Cut Volume	2,500 c.y.
Building Pad Cut Volume	1,500 c.y.
Net Export Required	26,068 c.y. (Unadjusted)

NOTES

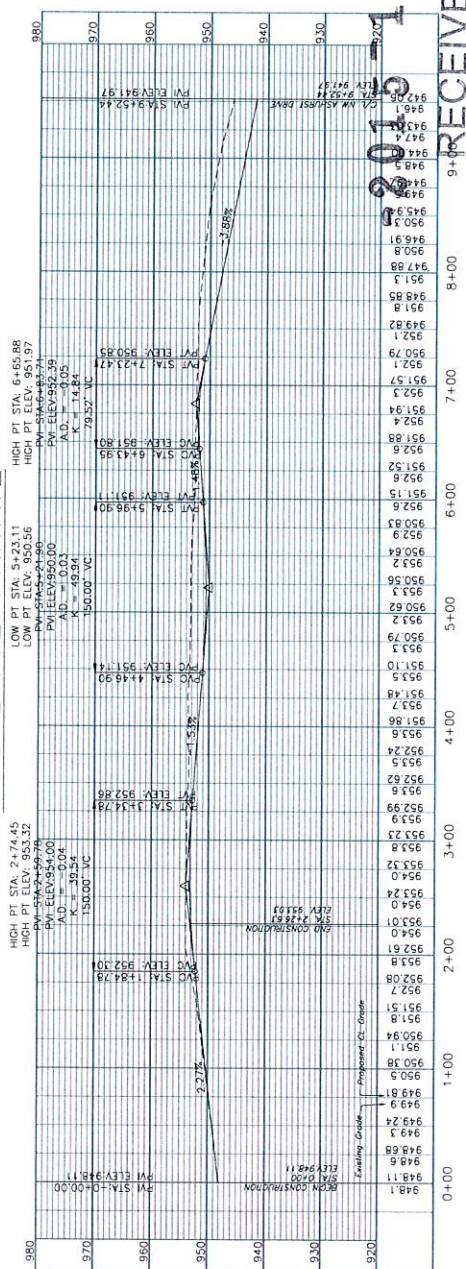
1. Contractor is responsible for verifying all existing utility locations prior to excavation. The location of all existing utilities shall be marked and verified by the contractor.
2. No part of the project lies within the 100 year flood plain.
3. Prior to construction, the contractor shall obtain all necessary permits from the City of Lees Summit, Missouri.
4. The Engineer or Owner of any time problematic areas are noted in the field.
5. Soil conditions are shown on the plan. The contractor shall be responsible for all details of construction activity.
6. The contractor shall be responsible for all details of roadway upgrade and grading work.

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N-S DRIVE PRIVATE



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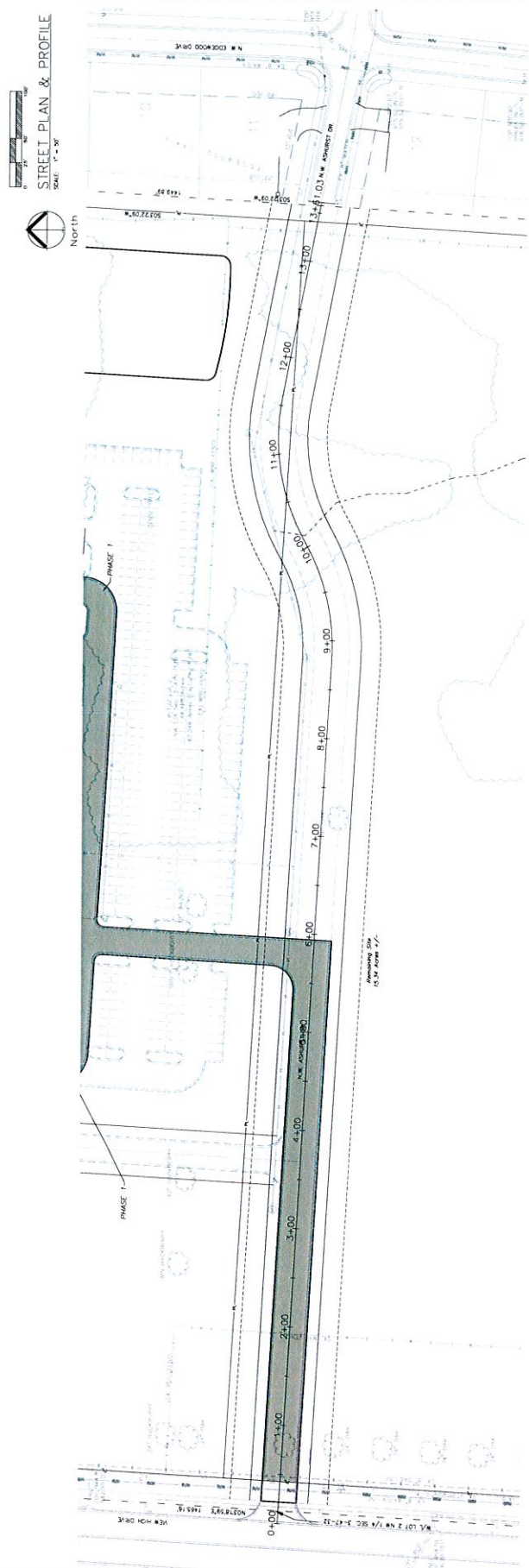
ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
3081 NORTH STREET
LEES SUMMIT, MISSOURI 64063
P: (816) 421-8888 F: (816) 423-9499

The Summit Church
3381 Northwest Chapman Road
Lees Summit, Jackson County, Missouri

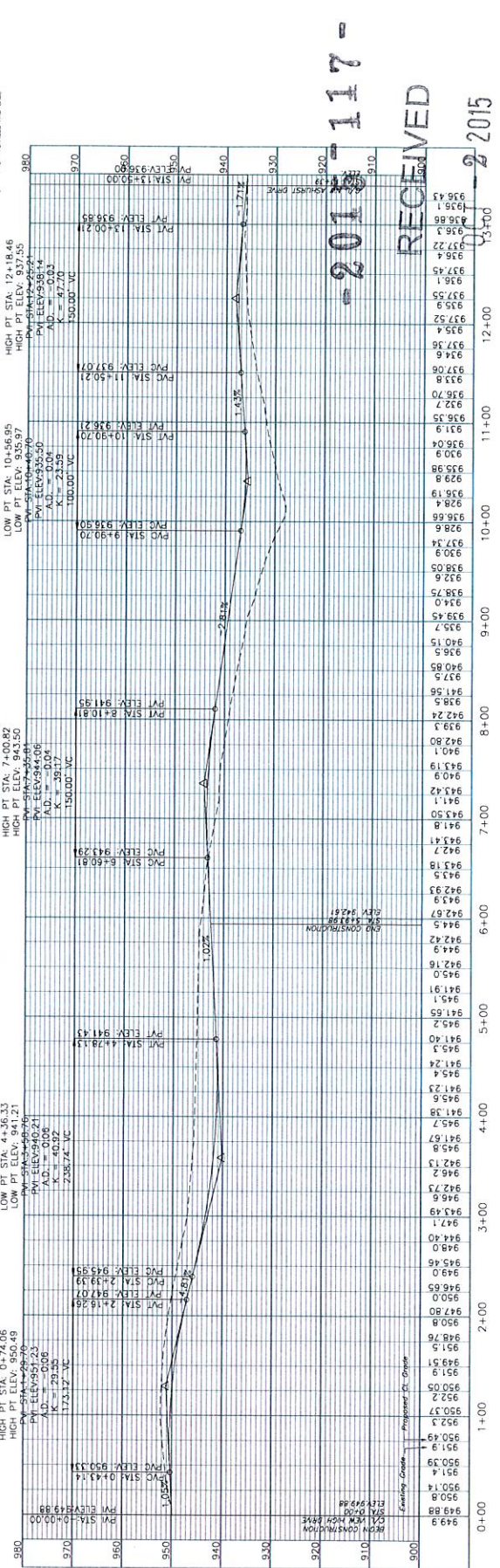
STREET PLAN & PROFILE
The Summit Church
Lees Summit, Jackson County, Missouri

Project: The Summit Church
Client: The Summit Church
Date: 10/2/2015
Scale: 1" = 20'
Sheet: 1 of 1
C: 201

ALL PAVING ON THE PARKING LOT WILL COMPLY WITH THE
STATE SPECIFICATIONS FOR ASPHALT 12 IN THICKNESS
AND BASE



NW ASHURST DRIVE

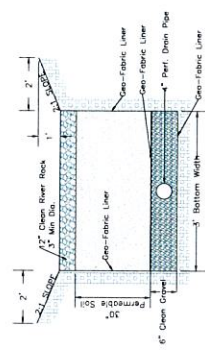
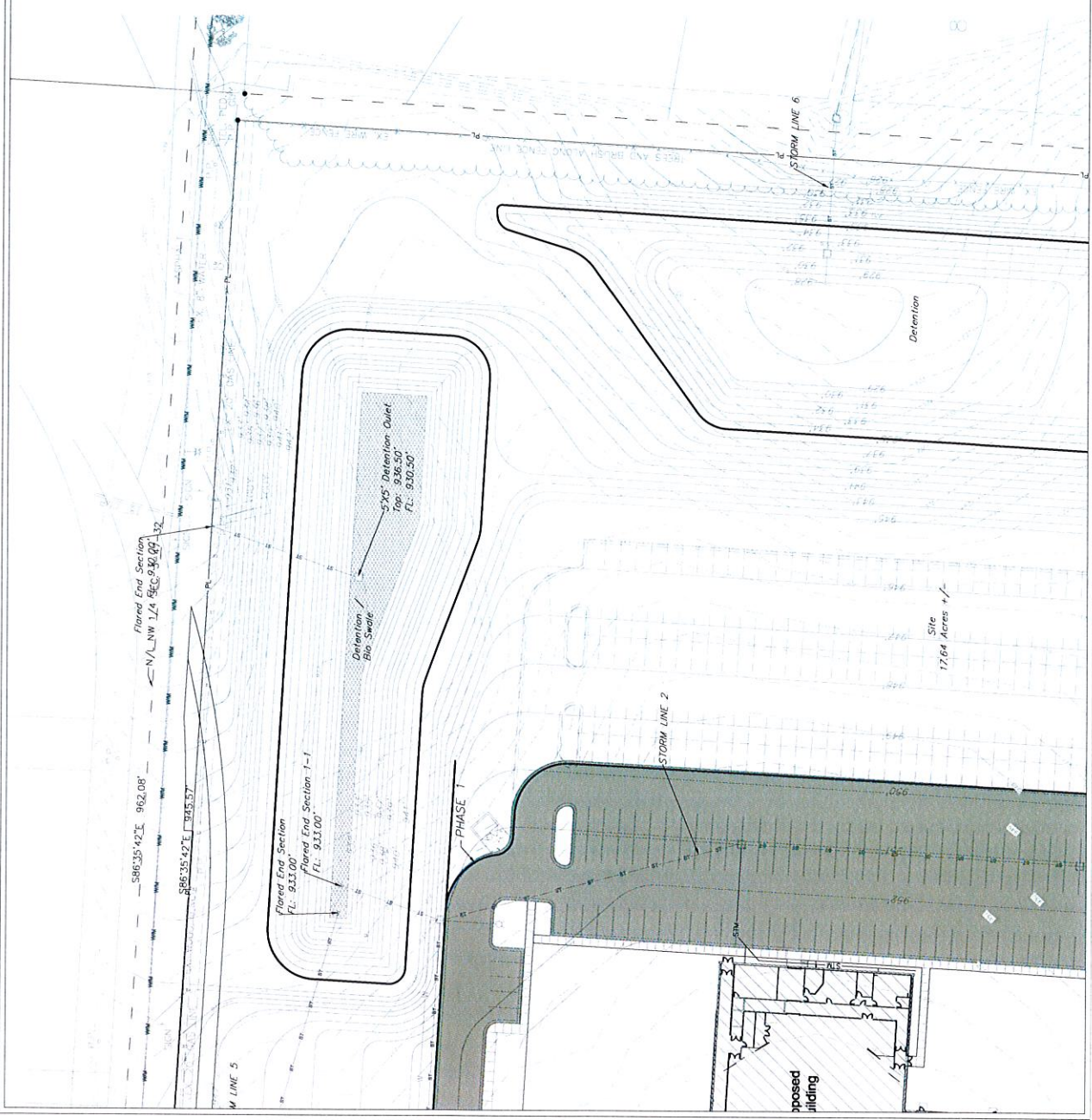


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JUN 2 2015

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Bio Swale Detail

Ceo-Fabric Liner

The Ceo-Form Geotextile Fabric's minimum permeability of 0.1 ft / day allows water to pass through it easily while preventing liquids, such as sewage, from passing through. The fabric's strength allows it to be used in applications requiring reinforcement, erosion control, the 8" Chen Channel and retaining walls.

Planting Material

The Permeable Soil Mix is to be covered by 12 inches of 3" Blended River Rock. No plantings shall be placed in the Erosion-Sediment Control Area until the vegetation has been established.

Permeable Soil Mix

The Permeable Soil Mix shall consist of 80% Sand, 20% Compost & 20% Top Soil.



RETAINING WALL PLAN

ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
3030 SOUTH STREET
LEE'S SUMMIT, MO 64082
P: (816) 423-9911 F: (816) 423-9949

Professional Engineer
Missouri
No. 000000000
No. 000000000
No. 000000000
No. 000000000
No. 000000000
No. 000000000
No. 000000000
No. 000000000
No. 000000000
No. 000000000

The Summit Church
3381 Northwest Chipman Road
Lee's Summit, Jackson County, Missouri

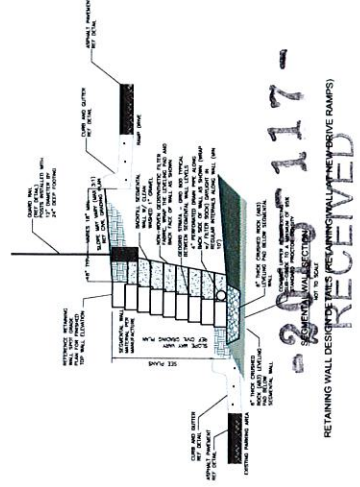
Project
The Summit Church, L540
New Date 10/1/15
Revised 10/1/15

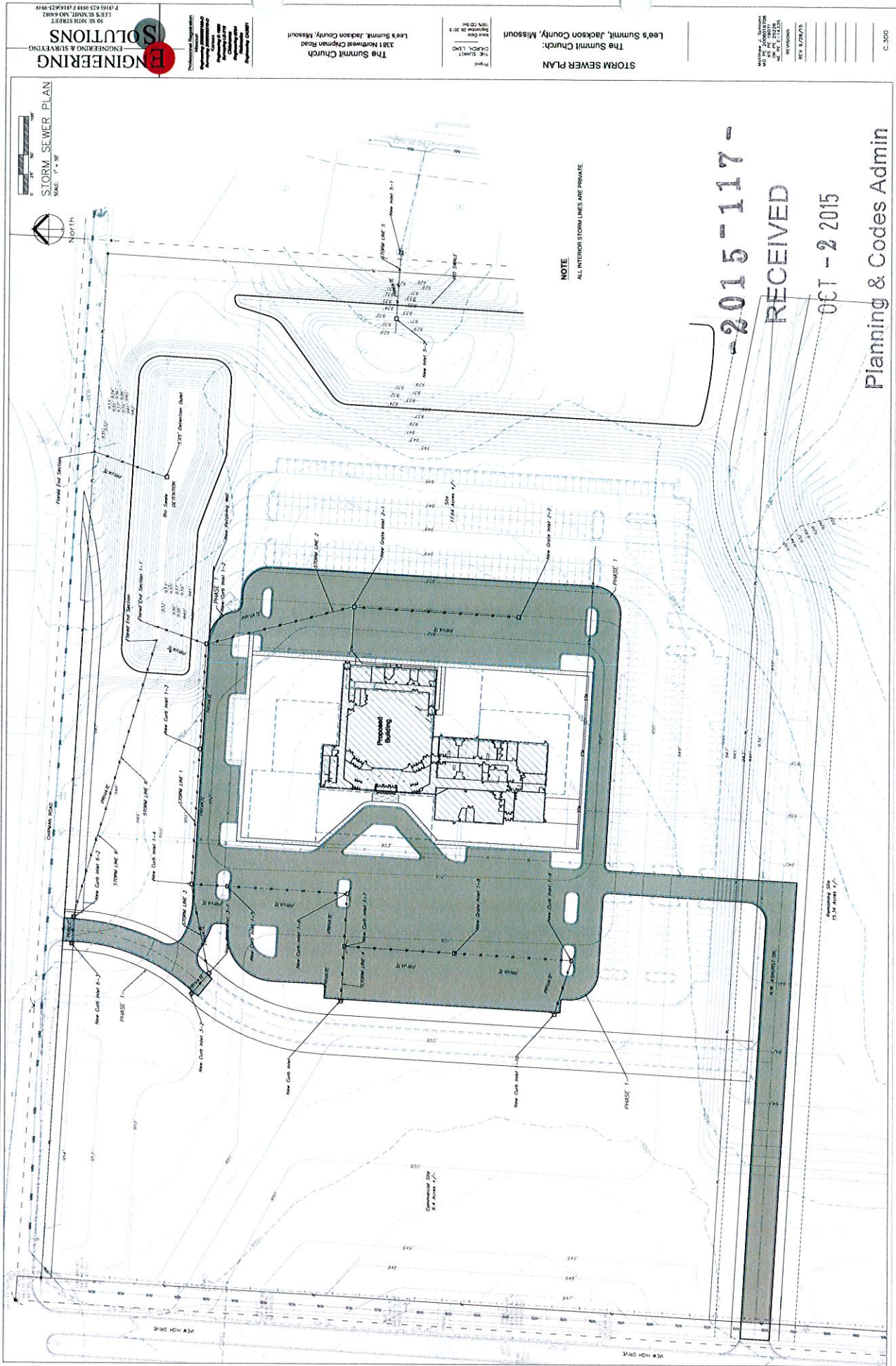
RETAINING WALL PLAN
The Summit Church
Lee's Summit, Jackson County, Missouri

NOT FOR CONSTRUCTION
THIS PLAN IS THE PROPERTY OF
ENGINEERING SOLUTIONS
NO PART OF THIS PLAN
SHALL BE REPRODUCED
WITHOUT WRITTEN PERMISSION
DATE 10/1/15
REV 10/1/15

Planning & Codes Admin

OCT - 2 2015





ENGINEERING SOLUTIONS
 ENGINEERING & SURVEYING
 5050 N. 10TH STREET
 LEES SUMMIT, MO 64082
 P: (816) 423-0888 F: (816) 423-9849

The Summit Church
 3381 Northwest Chapman Road
 Lees Summit, Jackson County, Missouri

Project
 Church Land
 10/1/14
 10/1/14

STORM SEWER PLAN
 The Summit Church
 Jackson County, Missouri
 Lee's Summit, Jackson County, Missouri

REVISIONS

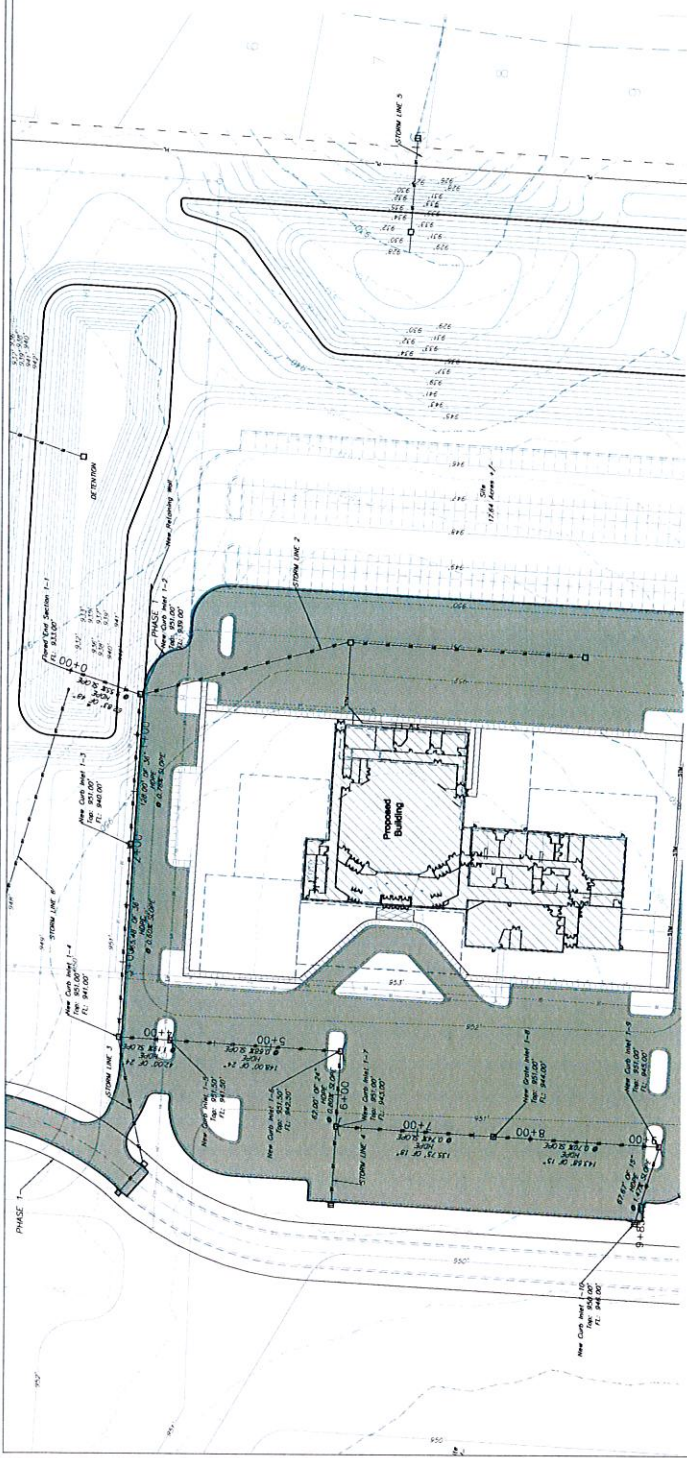
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10	10/1/14	10/1/14

C.300

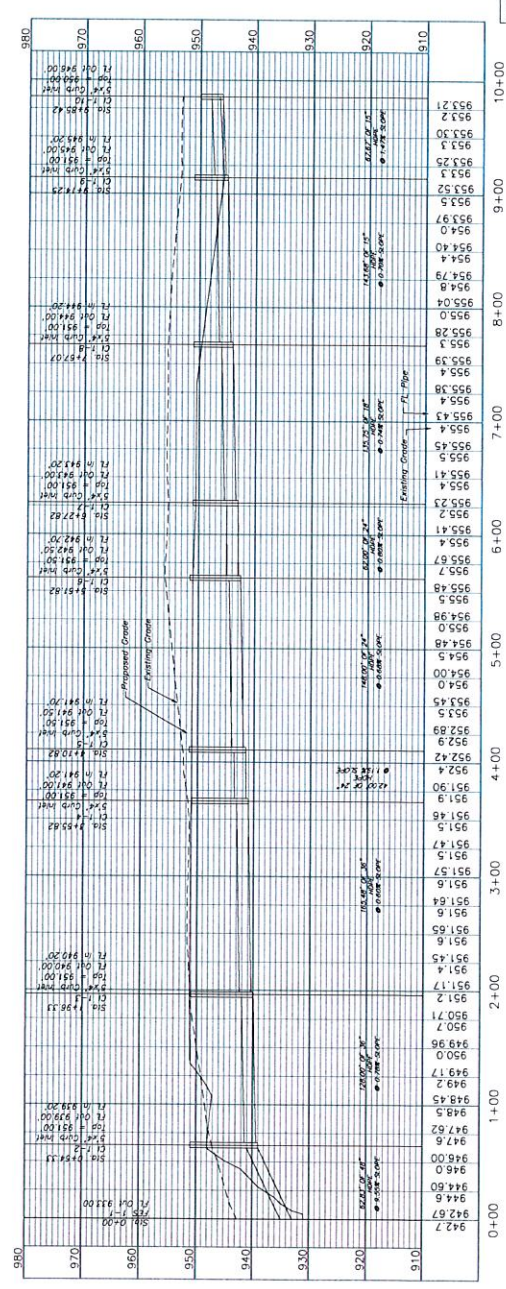
2015-117-
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NOTE
 ALL INTERIOR STORM LINES ARE PRIVATE

STORM SEWER PLAN & PROFILE
 SCALE: 1" = 30'

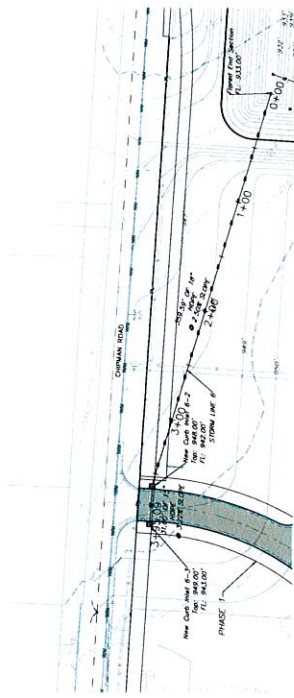
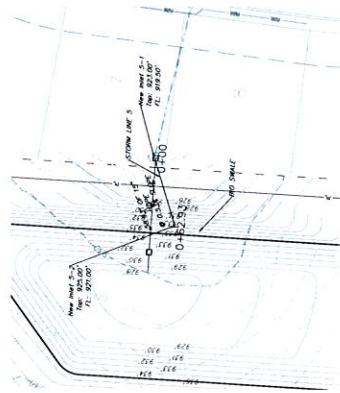


STORM LINE 1

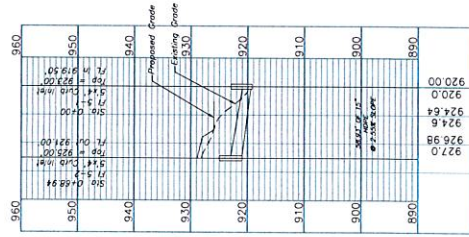


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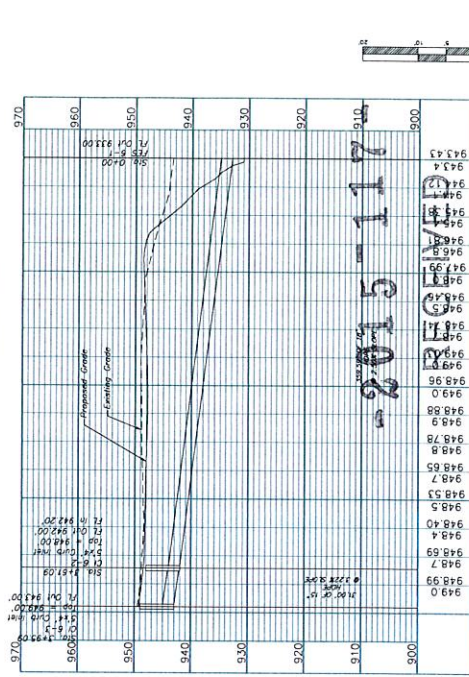
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OCT -2 2015



STORM LINE 5



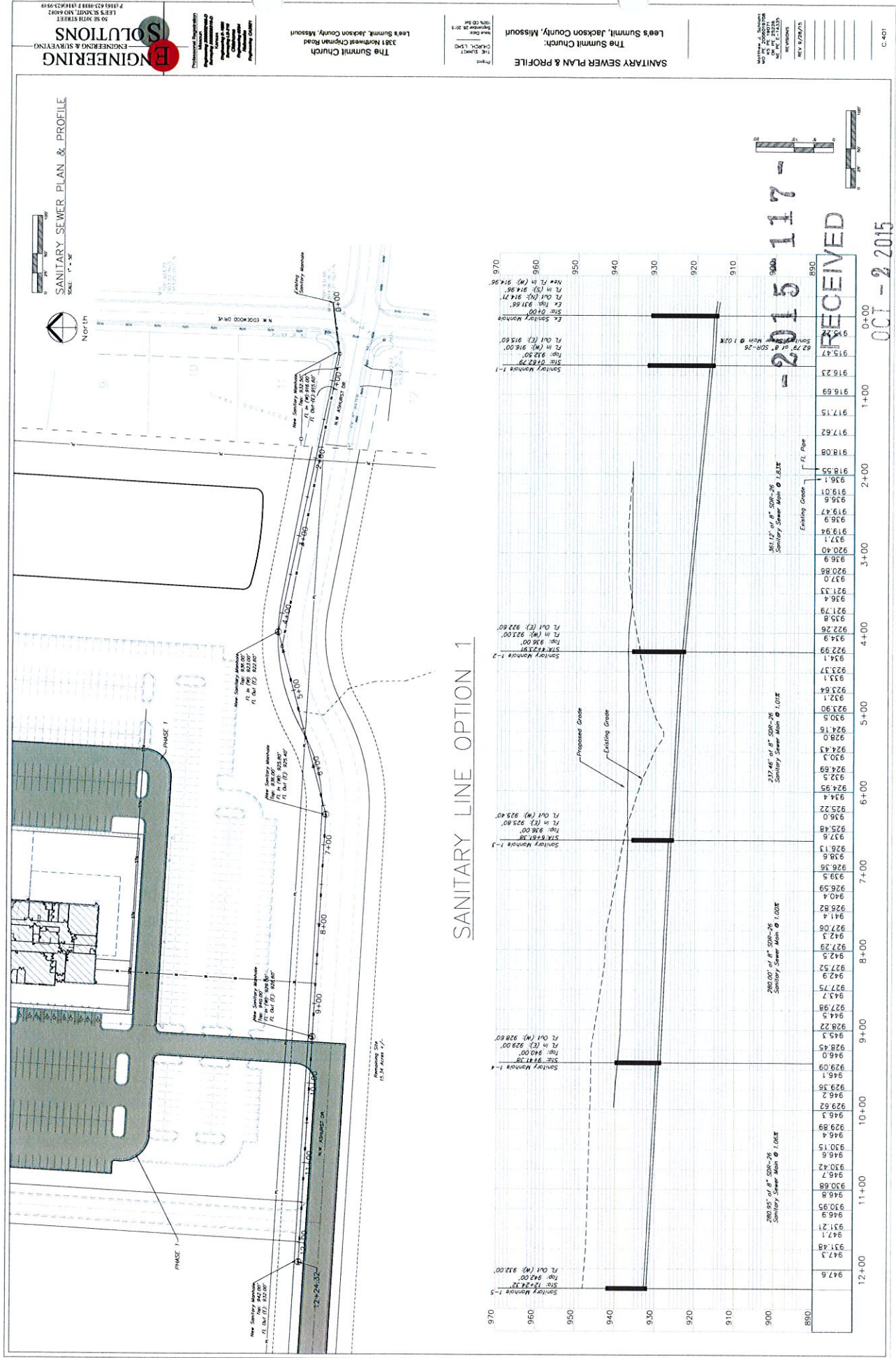
STORM LINE 6



Lee's Summit, Jackson County, Missouri
The Summit Church
3381 Northwest Chapman Road
Lee's Summit, Jackson County, Missouri

ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
3030 N. 10TH STREET
LEE'S SUMMIT, MO 64082
P: (816) 223-9999 F: (816) 223-9449

Planning & Codes Admin



ENGINEERING SOLUTIONS
 ENGINEERING & SURVEYING
 2000 W. 10TH STREET
 LEES SUMMIT, MO 64082
 P (816) 421-0888 F (816) 421-0949

Professional Registration
 Missouri
 License No. 000000000
 Expiration Date 12/31/2015
 Professional Seal
 Professional Engineer
 License No. 000000000
 Expiration Date 12/31/2015
 Professional Seal
 Professional Engineer
 License No. 000000000
 Expiration Date 12/31/2015
 Professional Seal

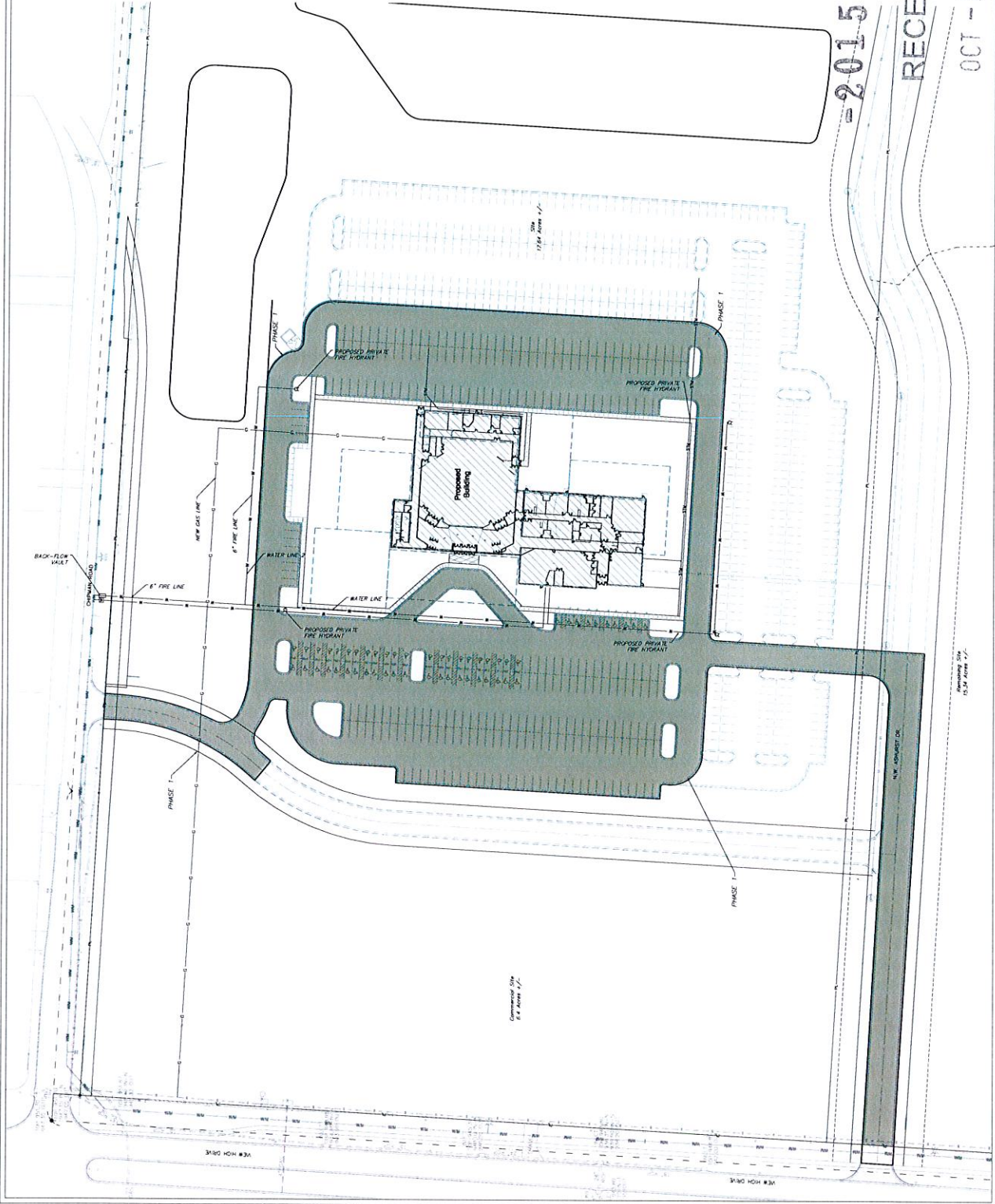
The Summit Church
 3361 Northwest Chapin Road
 Lees Summit, Jackson County, Missouri

Project
 Church, L&D
 10/1/2015
 10/1/2015

WATER PLAN
 The Summit Church
 Lees Summit, Jackson County, Missouri

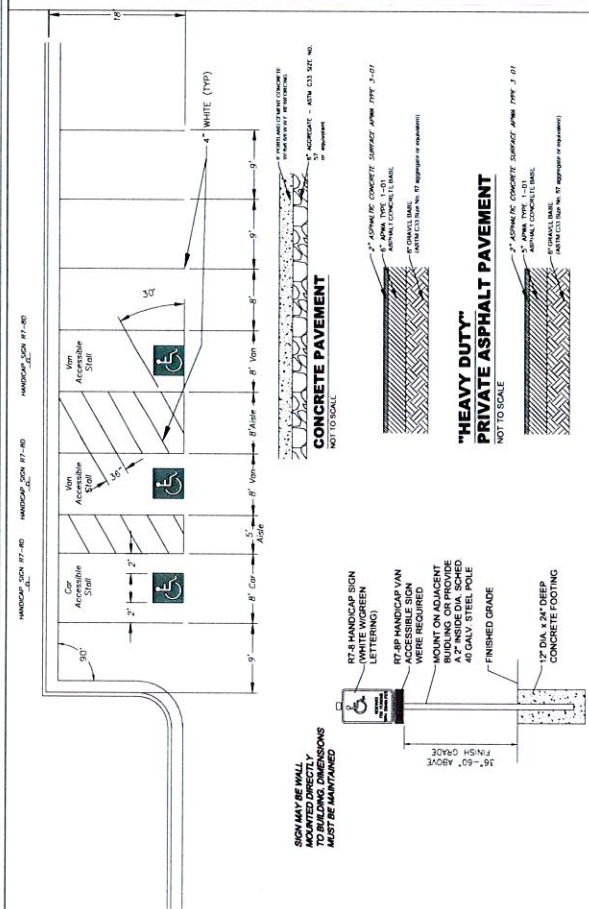
DATE: 10/1/2015
 BY: J. J. JONES
 CHECKED: J. J. JONES
 IN CHARGE: J. J. JONES
 C-500

WATER PLAN & PROFILE
 Scale: 1" = 30'
 North



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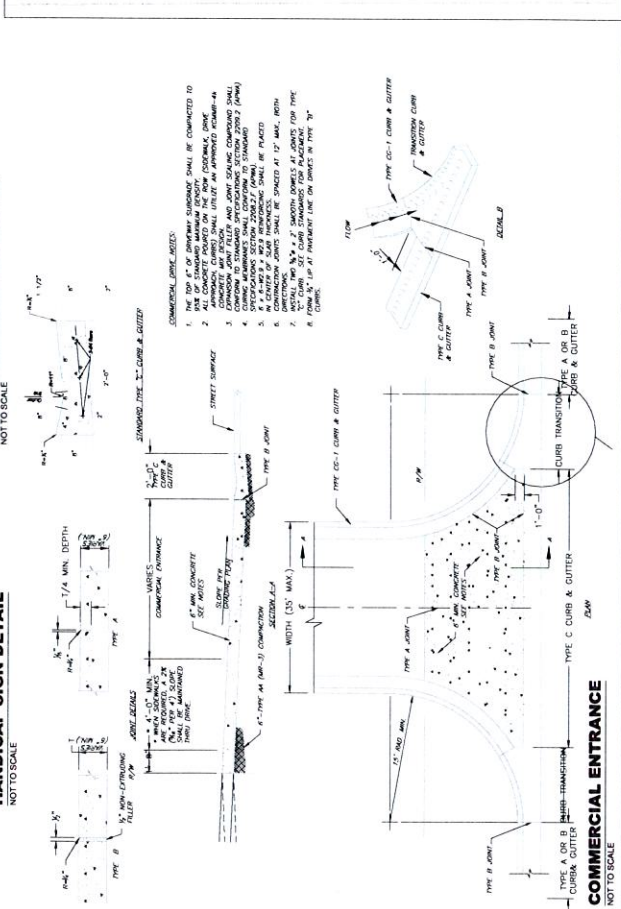
Planning & Codes Admin



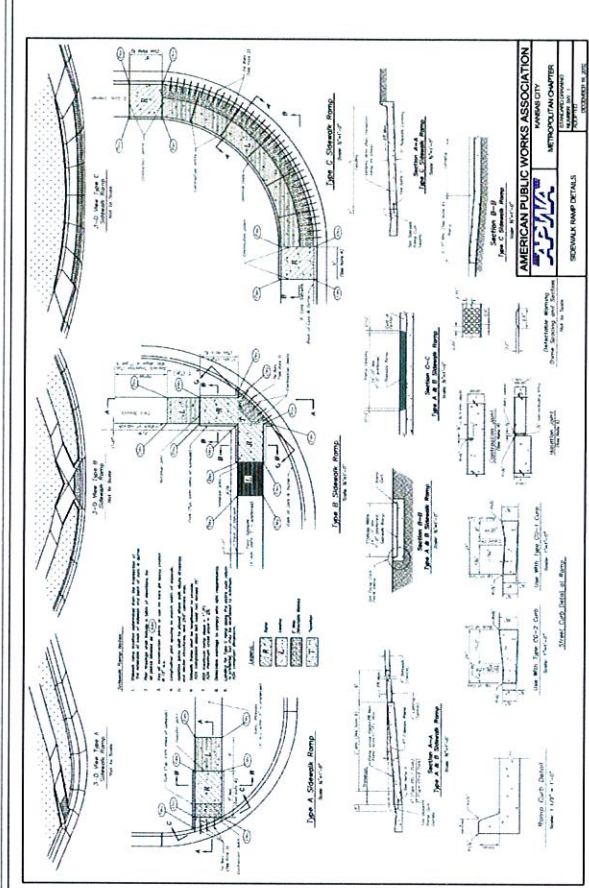
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NOT TO SCALE

"LIGHT DUTY" PRIVATE ASPHALT PAVEMENT
NOT TO SCALE

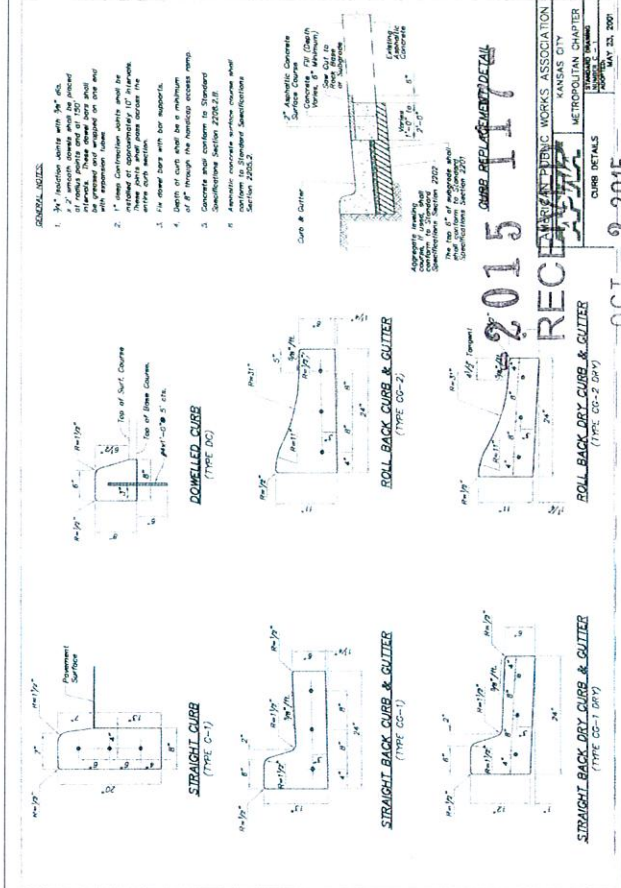
"HEAVY DUTY" PRIVATE ASPHALT PAVEMENT
NOT TO SCALE



COMMERCIAL ENTRANCE
NOT TO SCALE



DETAIL SHEET
The Summit Church, Jackson County, Missouri



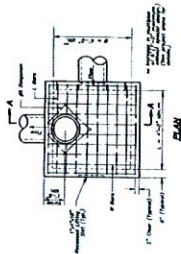
DETAIL SHEET
The Summit Church, Jackson County, Missouri

Professional Registration
 Missouri
 Professional Engineer
 License No. 10000
 State of Missouri
 American Public Works Association
 Kansas City
 Metropolitan Chapter
 License No. 10000

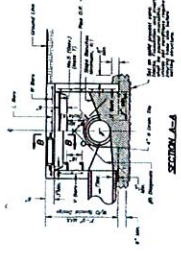
The Summit Church, Missouri
 Lee's Summit, Jackson County, Missouri

AMERICAN PUBLIC WORKS ASSOCIATION
 KANSAS CITY
 METROPOLITAN CHAPTER
 LICENSE NO. 10000
 TYPE 2
 DETAILS
 10/15/15

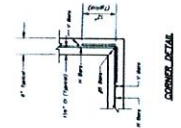
- GENERAL NOTES:**
1. All dimensions are in feet and inches.
 2. All materials are to be of standard quality.
 3. All materials are to be of standard quality.
 4. All materials are to be of standard quality.
 5. All materials are to be of standard quality.
 6. All materials are to be of standard quality.
 7. All materials are to be of standard quality.
 8. All materials are to be of standard quality.
 9. All materials are to be of standard quality.
 10. All materials are to be of standard quality.
 11. All materials are to be of standard quality.
 12. All materials are to be of standard quality.



STANDARD PRECAST MANHOLE
 (See Excavating Cover For Other Details)



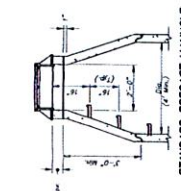
STANDARD PRECAST MANHOLE
 (See Excavating Cover For Other Details)



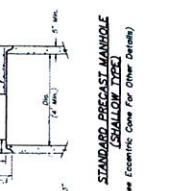
STANDARD PRECAST MANHOLE
 (See Excavating Cover For Other Details)



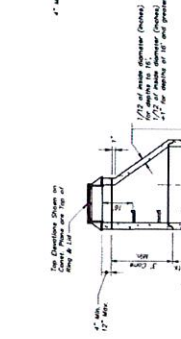
STANDARD PRECAST MANHOLE
 (See Excavating Cover For Other Details)



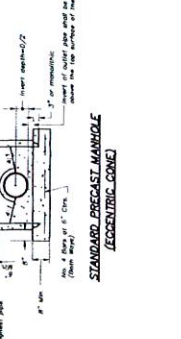
STANDARD PRECAST MANHOLE
 (See Excavating Cover For Other Details)



STANDARD PRECAST MANHOLE
 (See Excavating Cover For Other Details)



STANDARD PRECAST MANHOLE
 (See Excavating Cover For Other Details)

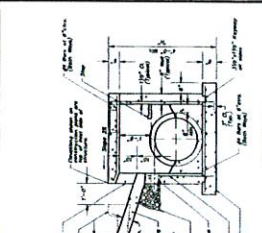


STANDARD PRECAST MANHOLE
 (See Excavating Cover For Other Details)

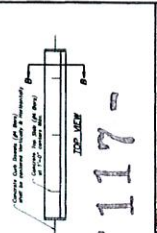
The Summit Church, Missouri
 Lee's Summit, Jackson County, Missouri

Professional Registration
 Missouri
 Professional Engineer
 License No. 10000
 State of Missouri
 American Public Works Association
 Kansas City
 Metropolitan Chapter
 License No. 10000

C 601



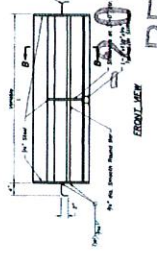
STANDARD PRECAST MANHOLE
 (See Excavating Cover For Other Details)



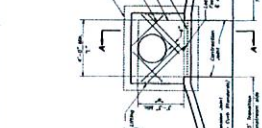
STANDARD PRECAST MANHOLE
 (See Excavating Cover For Other Details)



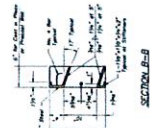
STANDARD PRECAST MANHOLE
 (See Excavating Cover For Other Details)



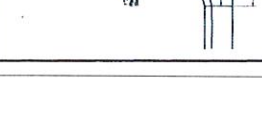
STANDARD PRECAST MANHOLE
 (See Excavating Cover For Other Details)



STANDARD PRECAST MANHOLE
 (See Excavating Cover For Other Details)



STANDARD PRECAST MANHOLE
 (See Excavating Cover For Other Details)



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LEE'S SUMMIT MISSOURI

HYDRANT INSTALLATION - STRAIGHT SET

Notes:
 1. HYDRANT SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 2. HYDRANT SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 3. HYDRANT SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 4. HYDRANT SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 5. HYDRANT SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 6. HYDRANT SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.

LEE'S SUMMIT MISSOURI

VALVE STEM EXTENSION AND VALVE BOX

Notes:
 1. VALVE SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 2. VALVE SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 3. VALVE SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 4. VALVE SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 5. VALVE SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 6. VALVE SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.

LEE'S SUMMIT MISSOURI

HORIZONTAL THRUST BLOCKS

Notes:
 1. THRUST BLOCK SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 2. THRUST BLOCK SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 3. THRUST BLOCK SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 4. THRUST BLOCK SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 5. THRUST BLOCK SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 6. THRUST BLOCK SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.

LEE'S SUMMIT MISSOURI

HYDRANT WITH 90 DEGREE BEND

Notes:
 1. HYDRANT SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 2. HYDRANT SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 3. HYDRANT SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 4. HYDRANT SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 5. HYDRANT SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 6. HYDRANT SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.

LEE'S SUMMIT MISSOURI

STRADDLE BLOCK

Notes:
 1. STRADDLE BLOCK SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 2. STRADDLE BLOCK SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 3. STRADDLE BLOCK SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 4. STRADDLE BLOCK SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 5. STRADDLE BLOCK SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 6. STRADDLE BLOCK SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.

LEE'S SUMMIT MISSOURI

ACCESSIBLE

Notes:
 1. ACCESSIBLE HYDRANT SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 2. ACCESSIBLE HYDRANT SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 3. ACCESSIBLE HYDRANT SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 4. ACCESSIBLE HYDRANT SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 5. ACCESSIBLE HYDRANT SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.
 6. ACCESSIBLE HYDRANT SHALL BE INSTALLED IN LINE WITH MECHANICAL JOINT AND VALVE.

0 40' 80' 160'

LANDSCAPE PLAN

SCALE: 1" = 80'



GENERAL LANDSCAPE NOTES:

[illegible]

LAWN AND TURF AREAS

7. ALL LAWN AREAS TO BE SOODED OR SEEDS AS SHOWN ON PLANS. SOO SHALL COMPLY WITH US DEPT. OF AGRICULTURE RULES AND REGULATIONS UNDER THE FEDERAL SEED ACT AND EQUAL IN QUALITY TO STANDARDS FOR CERTIFIED SEED. SOO SHALL BE HEALTHY, THICK TURF HAVING UNDERGOING A PROGRAM OF REGULAR FERTILIZING, MOWING AND WEED CONTROL. SEED AND SOO SHALL BE A TURF-TYPE TALL FESCUE (3 WAY) BLENDED. SEED BLENDS SHALL CONSIST OF THE FOLLOWING:

TURF-TYPE TALL FESCUE	SOO
KENTUCKY BLUEGRASS	10%

INSTALLATION

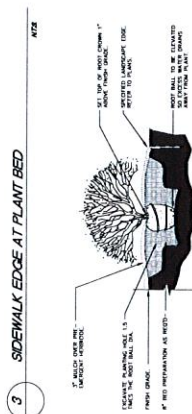
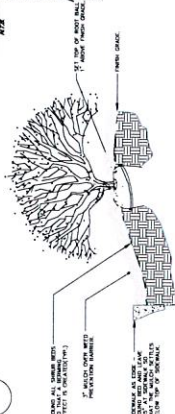
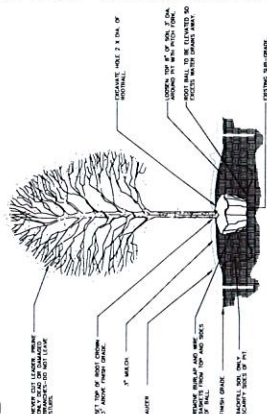
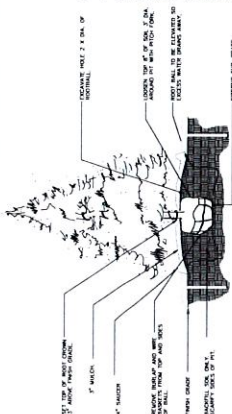
[illegible]

LANDSCAPE WORKSHEET

[illegible]

PLANTING SCHEDULE: E:

SYMBOL	QUANT	KEY	NAME	SIZE
	73	7A	AMERICAN BACWOOD LINDEN TELA AMERICANA	3" x 3" CAL
	50	5B	CONCESSIONS LINEN AMERICAN "CONCESSIONS" "KYNBOCK"	8" FL
	71B	8B	BURNING ALFA BURNING ALFA "COMACTES"	43 PPT
	23	8B	OLYMPIAN REDWOOD CROSS BURNING "OLYMPIAN"	3" x 3" CAL



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PL#2015-117-RELIM DEVELOPMENT PLAN
THE SUMMIT CHURCH
3381 CHIPMAN ROAD
ENGINEERING SOLUTIONS, APPL.

