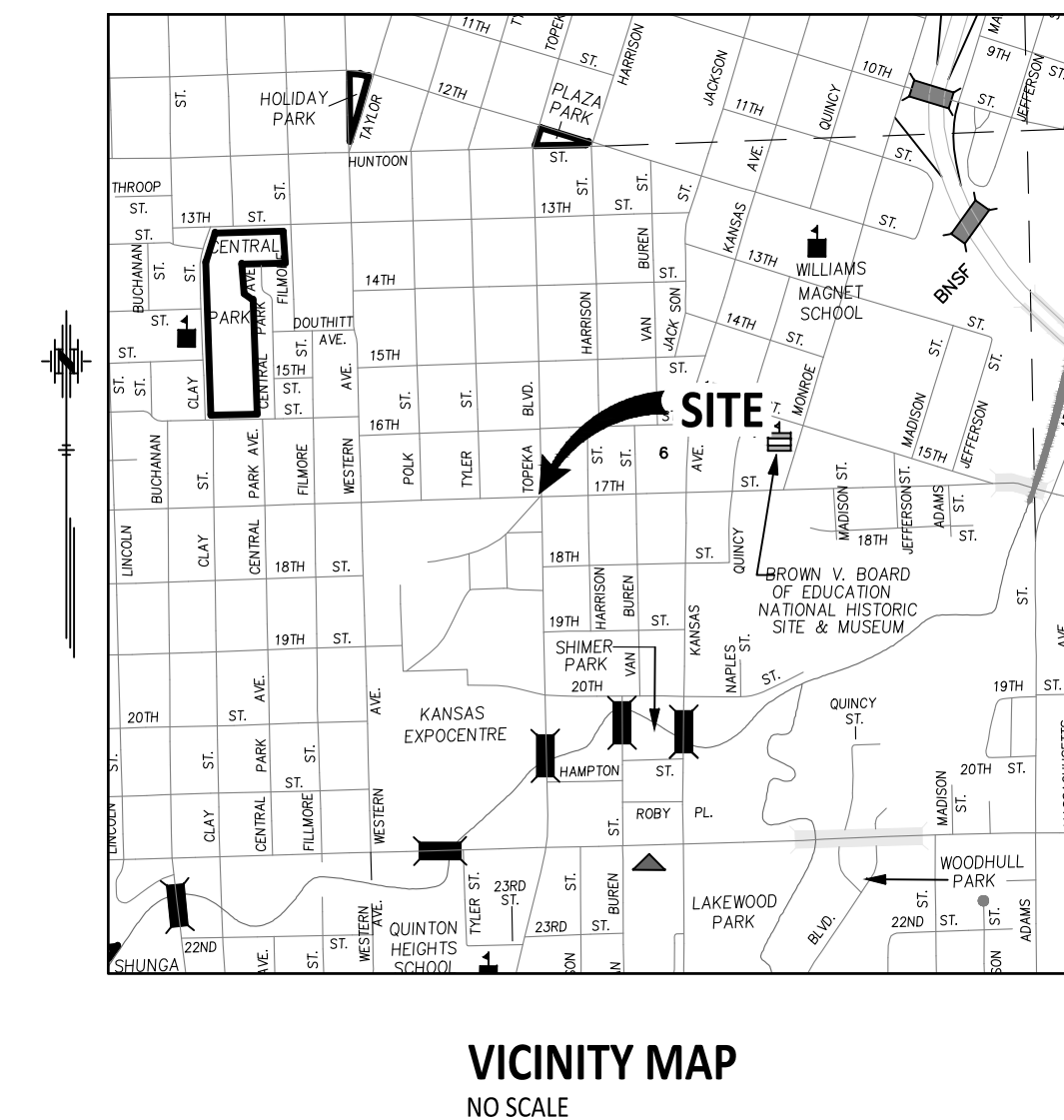
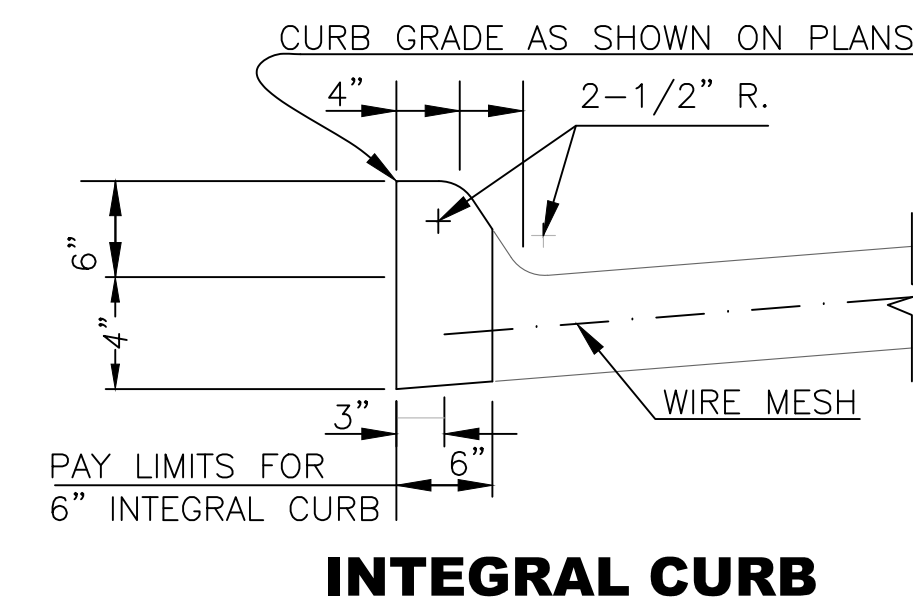
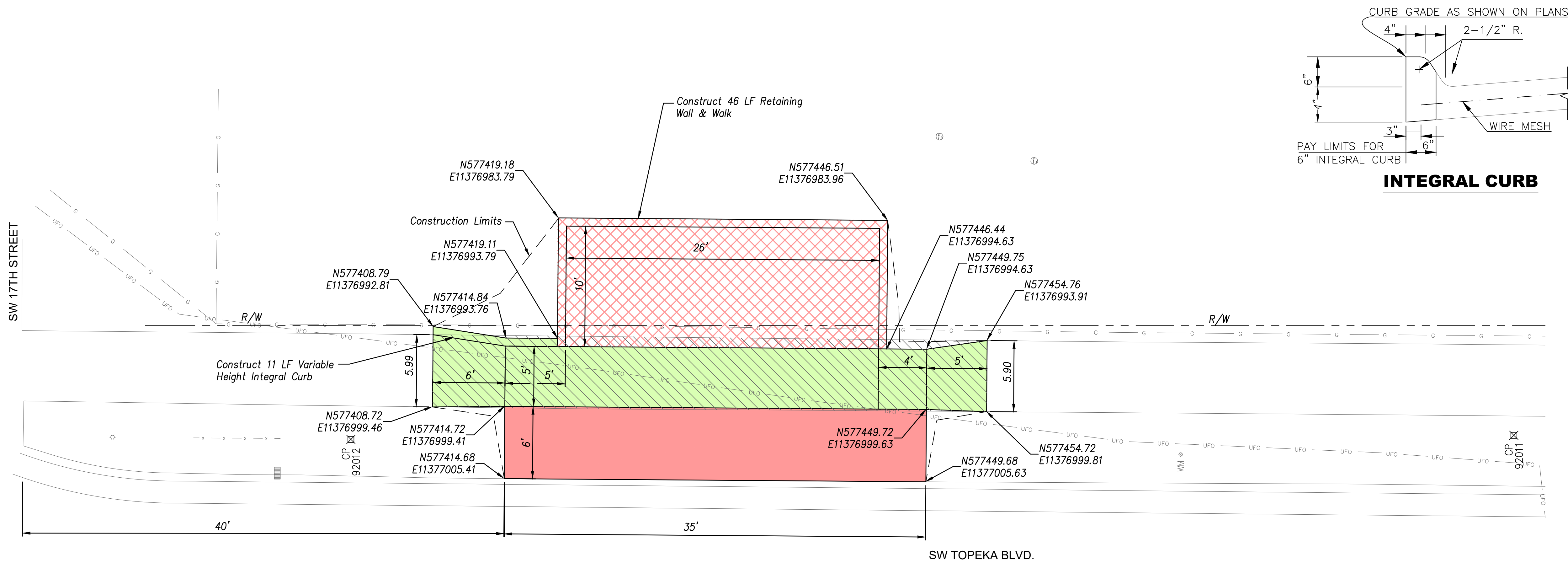




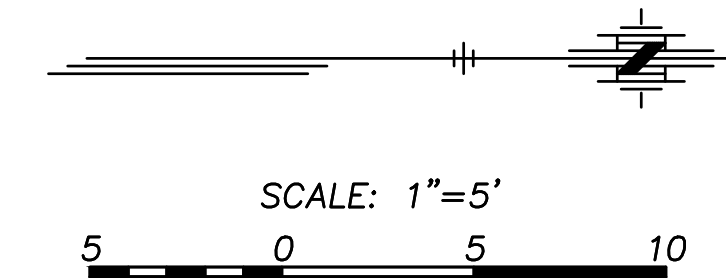
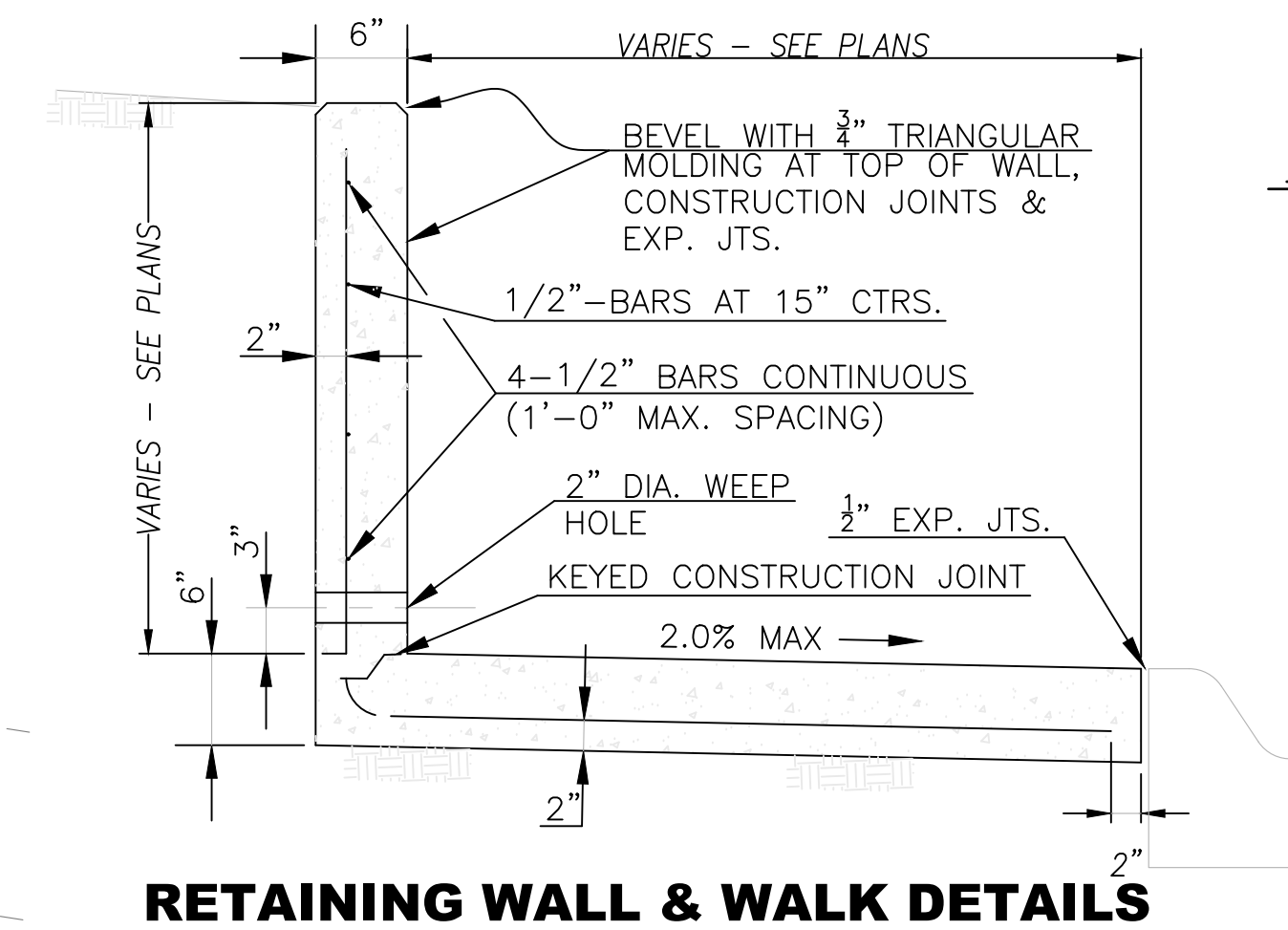
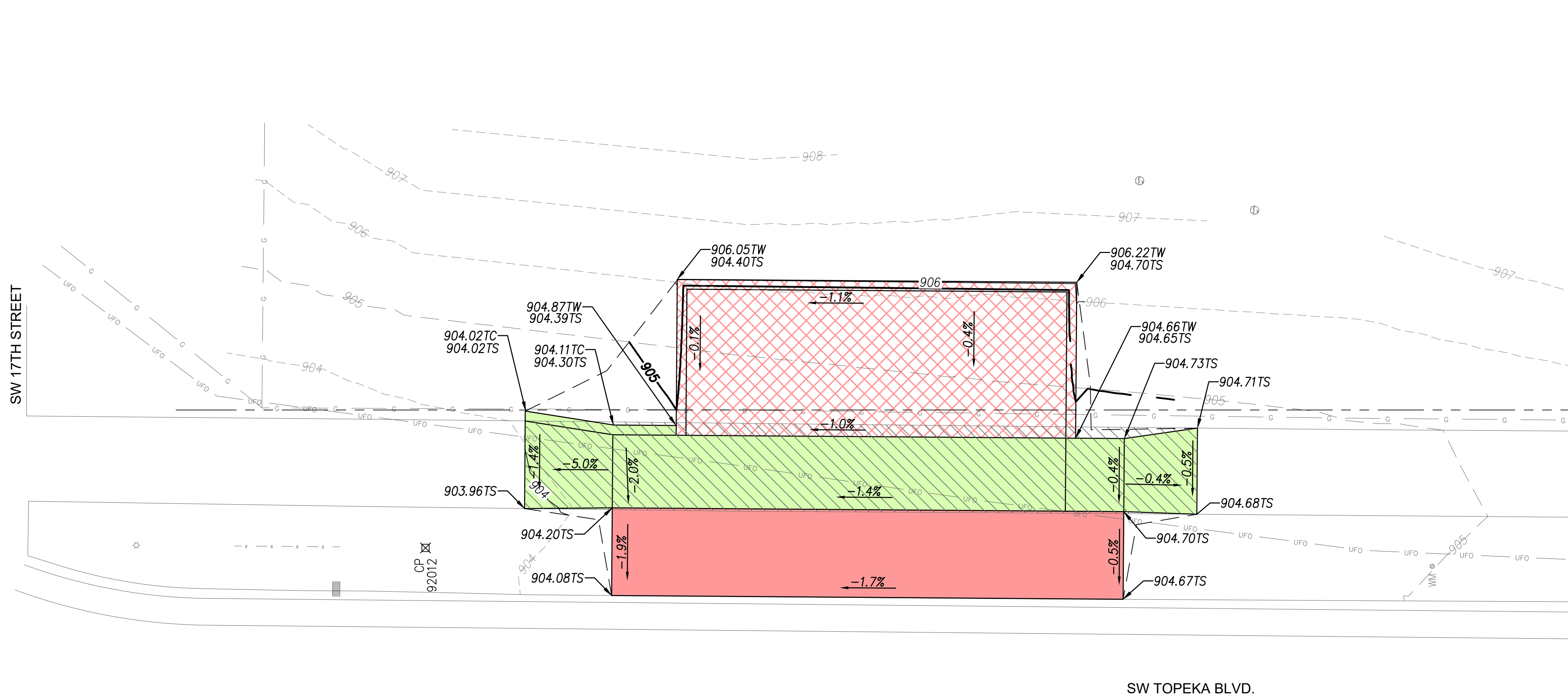
TOPEKA METRO

**REQUEST FOR BIDS
Concrete Pads for Bus Stops
Phase 9 Group 2.2
TO-20-03**

**Appendix III
Engineering Studies**



- 155044 CONTROL TMTA PH 8.5
NAD 83 KRCS ZONE 11
NAVD 88
- CP 92011 SET 1/2" REBAR W/CAP (CFS CONTROL)
N: 577498.5150 E: 11377001.7510 EL: 905.73
1) TO WEST B/C TOPEKA BLVD 4.0' E
2) TO EAST EDGE N-S WALK 1.5' W
3) TO FACE LP 6.0' NNE
- CP 92012 SET 1/2" REBAR W/CAP (CFS CONTROL)
N: 577401.9660 E: 11377002.1800 EL: 903.96
1) TO WEST B/C TOPEKA BLVD 3.0' E
2) TO EAST EDGE N-S WALK 2.7' W
3) TO NW COR INLET 4.9' SE



LEGEND

- Construct Comb. Sidewalk & Retaining Wall
- Construct 5" Non-Reinforced Pad w/ 4" AB-3
- Conc. Sidewalk Removal
- Construct 4" Conc. Sidewalk w/ 4" AB-3

TP Top of Pavement
TS Top of Sidewalk
TC Top of Curb
TW Top of Wall

Note:
1. All grading side slopes shall be a 6:1 unless noted on plan.

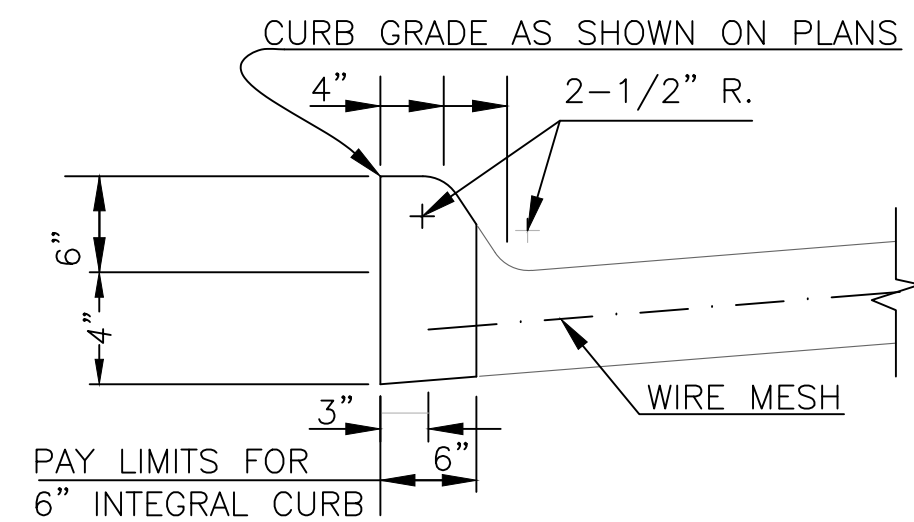
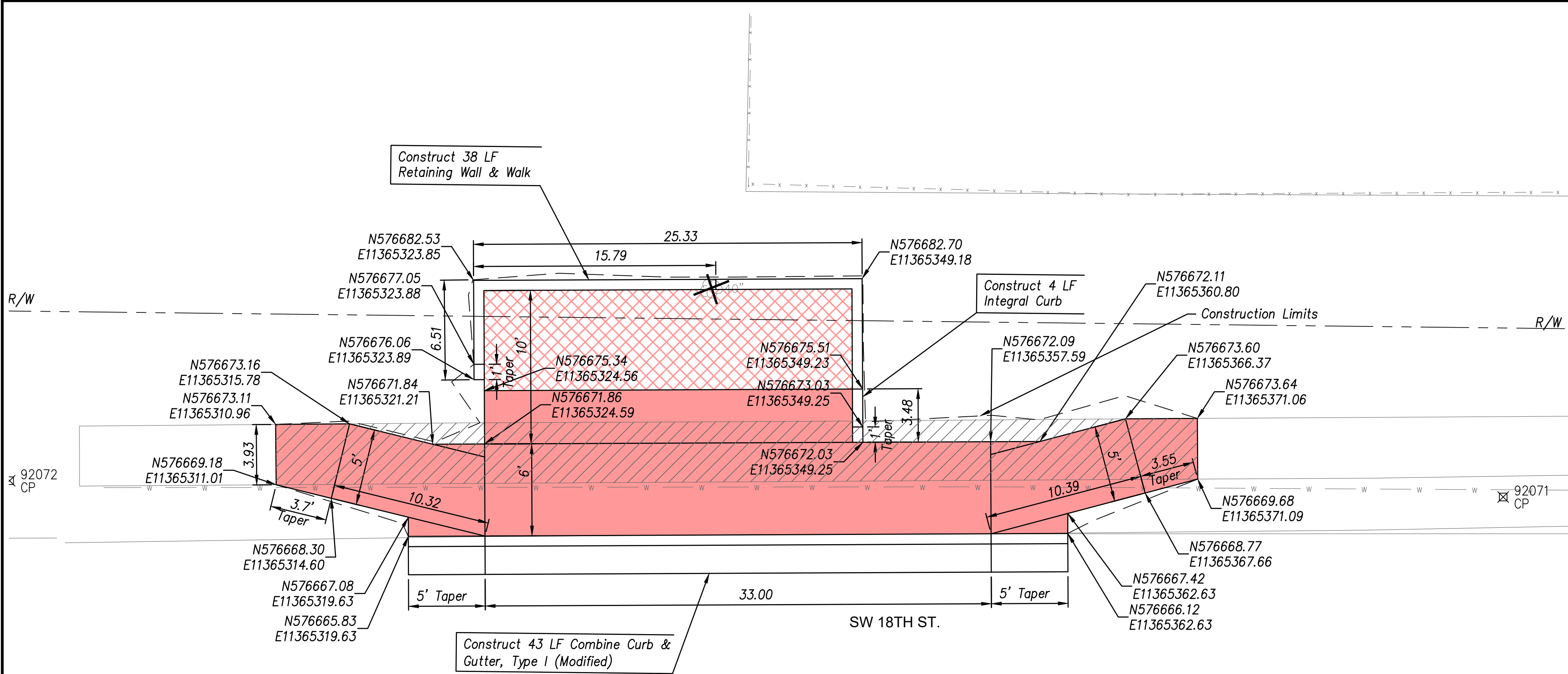
SW TOPEKA BLVD. & SW 17TH ST. (NW CORNER)
(Med. Shelter & Trash Can)

CFS ENGINEERS
cfs.com
2830 SW Woodside Dr., Topeka, KS 66614
P: 785-272-4706 F: 785-272-4735

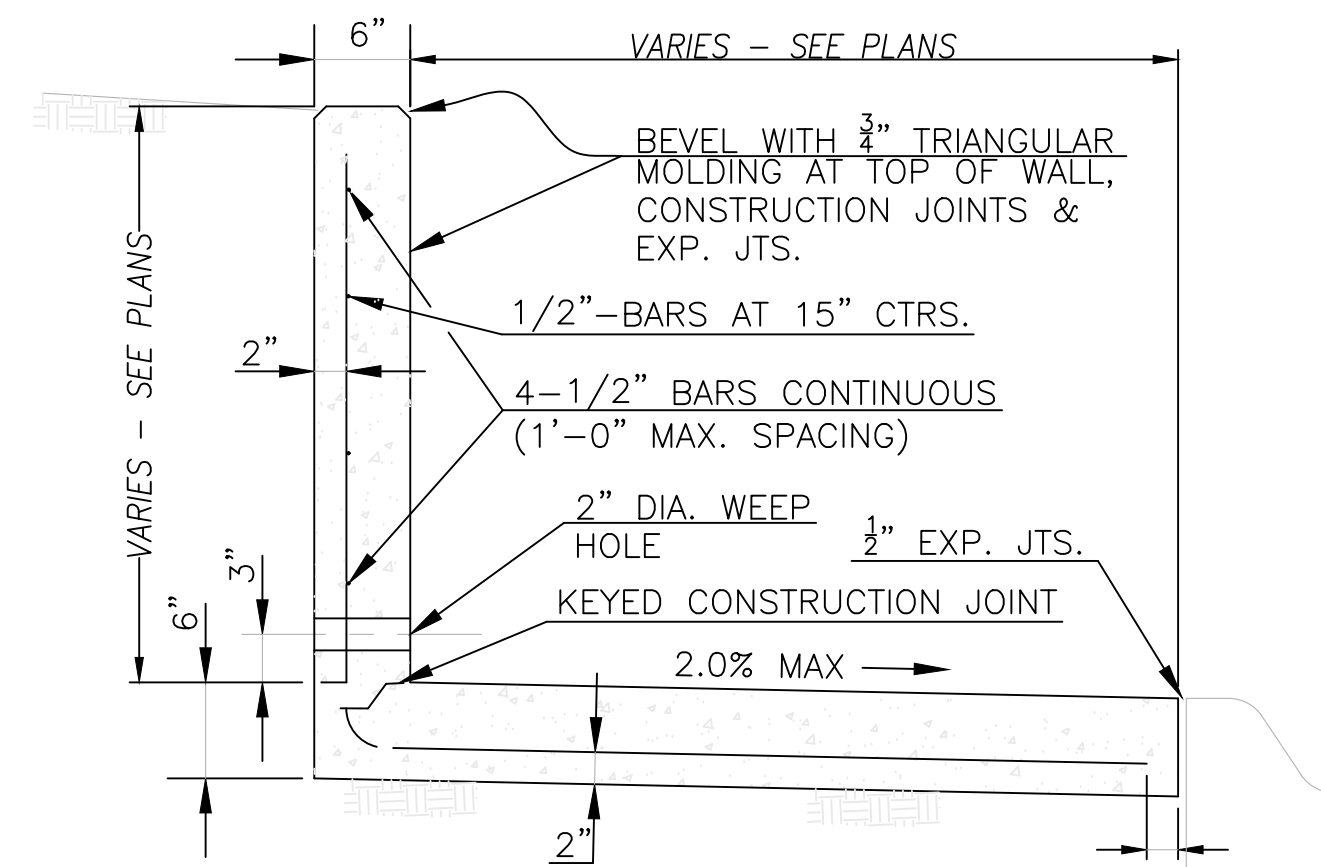
NOTE: TMTA, PHASE 9.2
CFS PROJECT # 15-5044 DATE: 04/2019
PROJECT MANAGER: KH SHEET 1 OF 1

CITY OF TOPEKA

SHAWNEE CO., KS

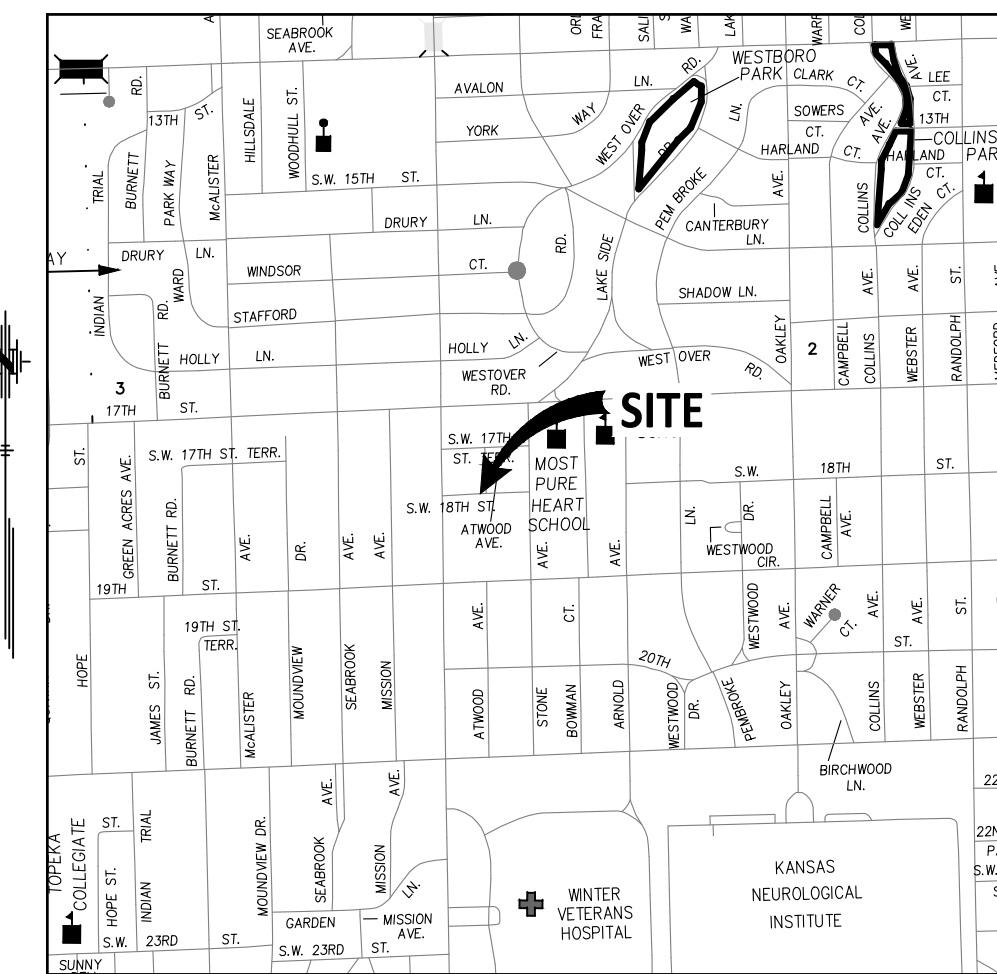


INTEGRAL CURB



RETAINING WALL & WALK DETAILS

NOTE:
 ► THIS TYPE OF WALL MAY BE USED TO A MAXIMUM HEIGHT OF 3'-0".
 ► WEEP HOLES AT A MAXIMUM OF 15' CENTER TO CENTER WITH COARSE AGGREGATE PLACED AT EACH WEEP HOLE 18" IN ALL DIRECTIONS ABOVE FLOW LINE.
 ► CONCRETE SHALL BE CLASS "A" THROUGHOUT WITH GRADE 40 REINFORCING.
 ► PLACE 1/2" HARDWARE SCREEN AT WEEP HOLES TO RETAIN AGGREGATE.

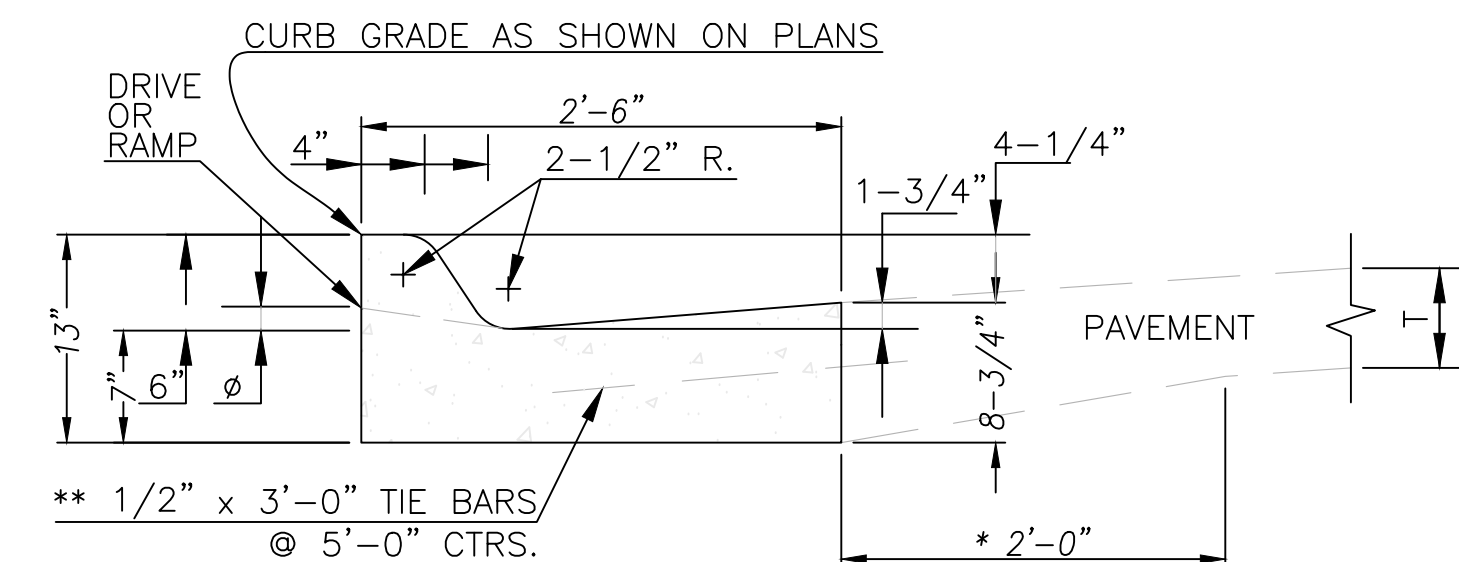
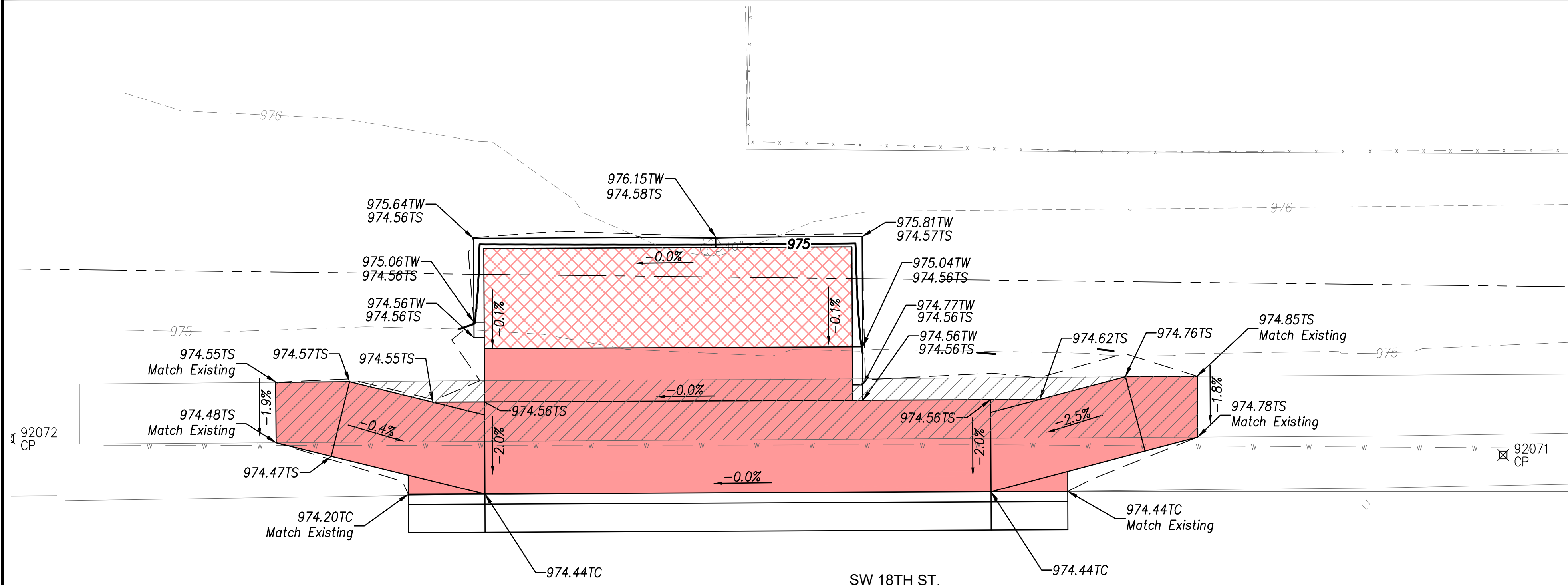


VICINITY MAP

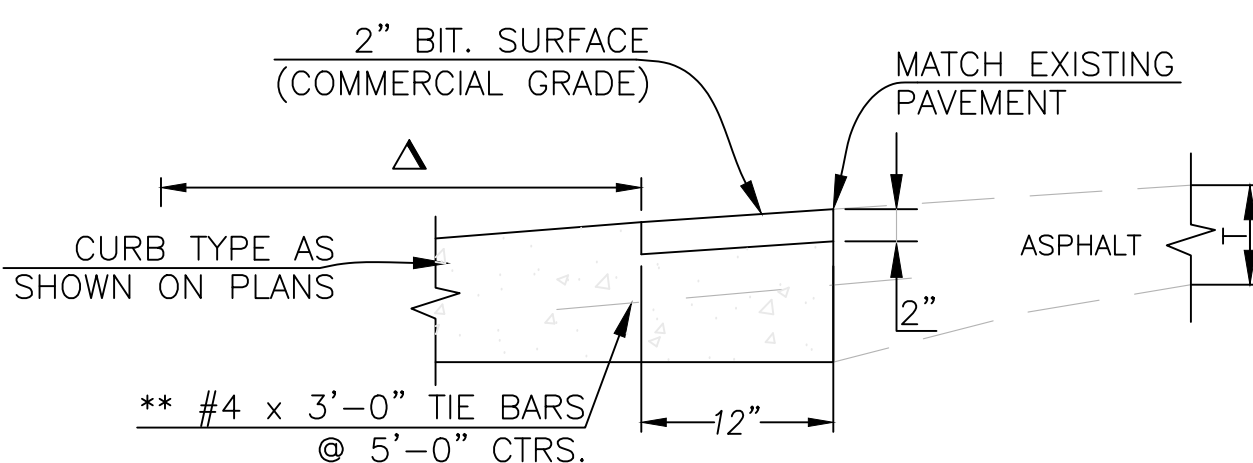
155044 CONTROL TMTA PH 8.5
 NAD 83 KRCS ZONE 11
 NAVD 88

CP 92071 SET 1/2" REBAR W/CAP (CFS CONTROL)
 N: 576668.5600 E: 11365391.0110 EL: 974.92
 1) TO NORTH B/C 18TH ST 2.2' S
 2) TO SOUTH EDGE E-W WALK 1.2' N
 3) TO LP 22.7' ENE

CP 92072 SET 1/2" REBAR W/CAP (CFS CONTROL)
 N: 576669.4000 E: 11365293.6250 EL: 974.45
 1) IN LINE W/EAST EDGE N-S WALK
 2) IN LINE W/SOUTH EDGE E-W WALK
 3) TO NORTH B/C 18TH ST 3.7'S



COMBINED CURB & GUTTER-TYPE I



NOTE:
 CURB AND GUTTER ABUTTING EXISTING ASPHALT

Δ DIMENSION IS FROM BACK OF CURB TO TOE, SEE APPROPRIATE DETAIL FOR CURB TYPE AS SHOWN ON PLANS

NOTES:

* THE CONTRACTOR HAS THE OPTION OF MAINTAINING OR TRANSITIONING AS SHOWN AT NO ADDITIONAL COST.

**THE TIE BARS MAY BE ELIMINATED WITH ASPHALTIC CONCRETE PAVEMENT CONSTRUCTION.

Ø 1-1/2" FOR DRIVE ENTRANCES AND 3/4" FOR SIDEWALK RAMP

SCALE: 1"=5'

LEGEND

- Construct Comb. Sidewalk & Retaining Wall
- Construct 5" Non-Reinforced Pad w/ 4" AB-3
- Conc. Sidewalk Removal
- Construct 4" Conc. Sidewalk w/ 4" AB-3

TP Top of Pavement
 TS Top of Sidewalk
 TC Top of Curb
 TW Top of Wall

Note:
 1. All grading side slopes shall be a 6:1 unless noted on plan.

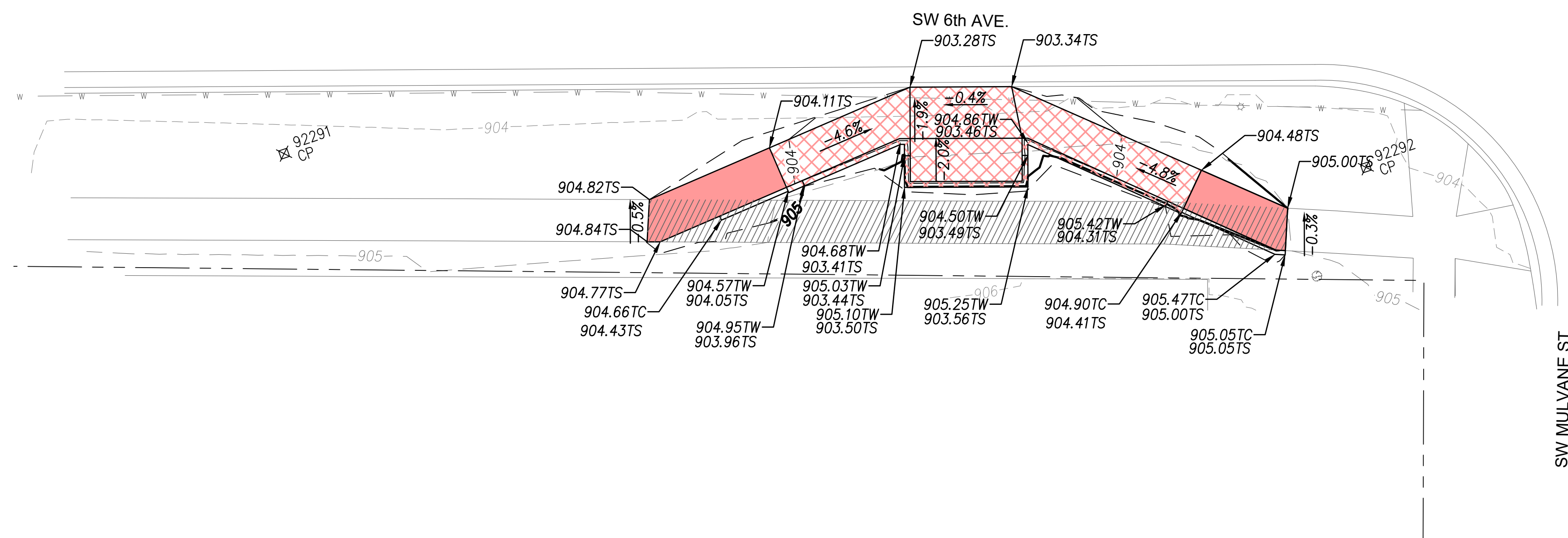
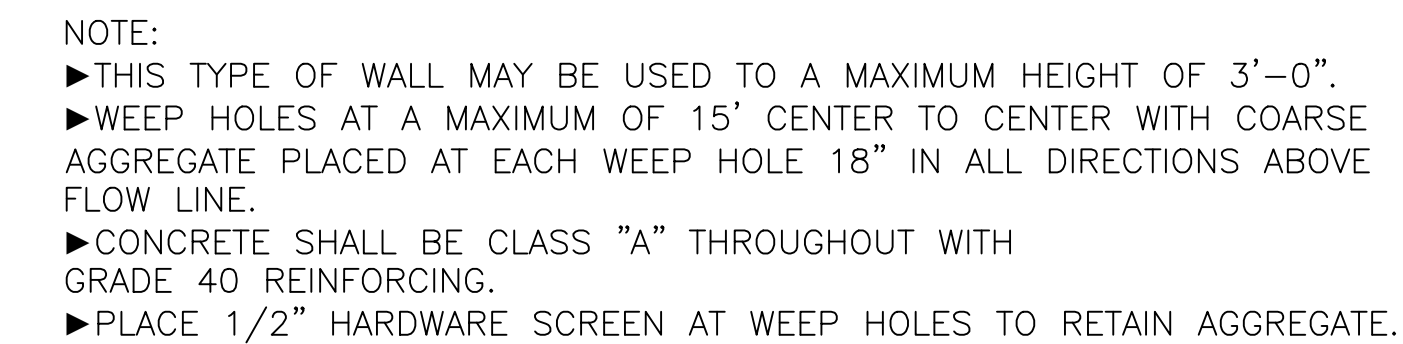
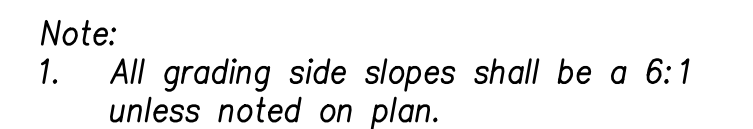
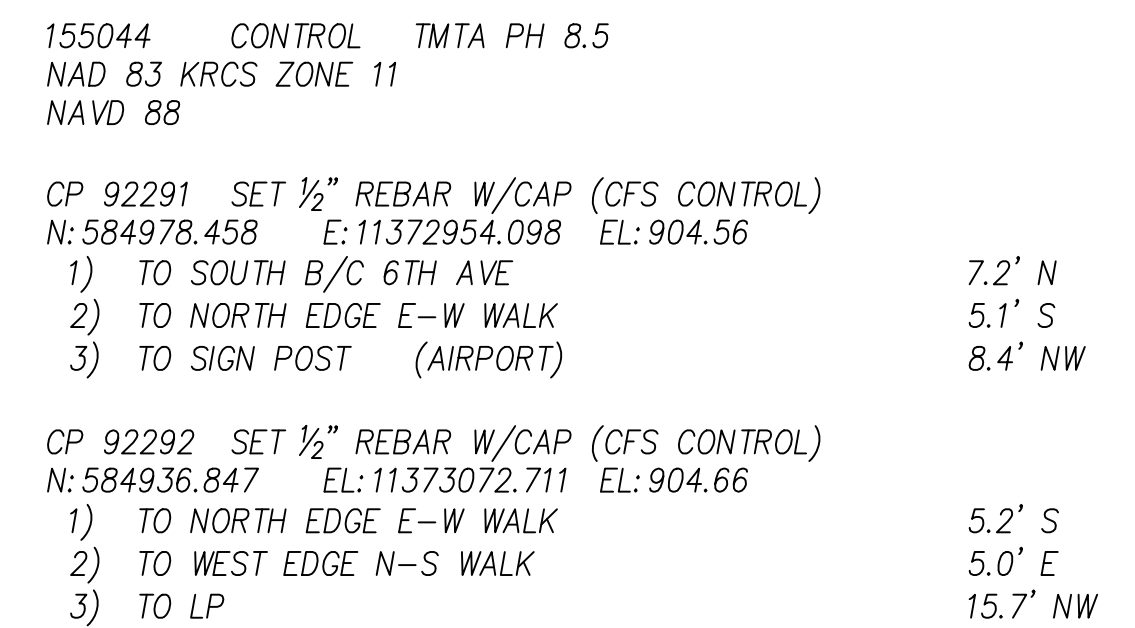
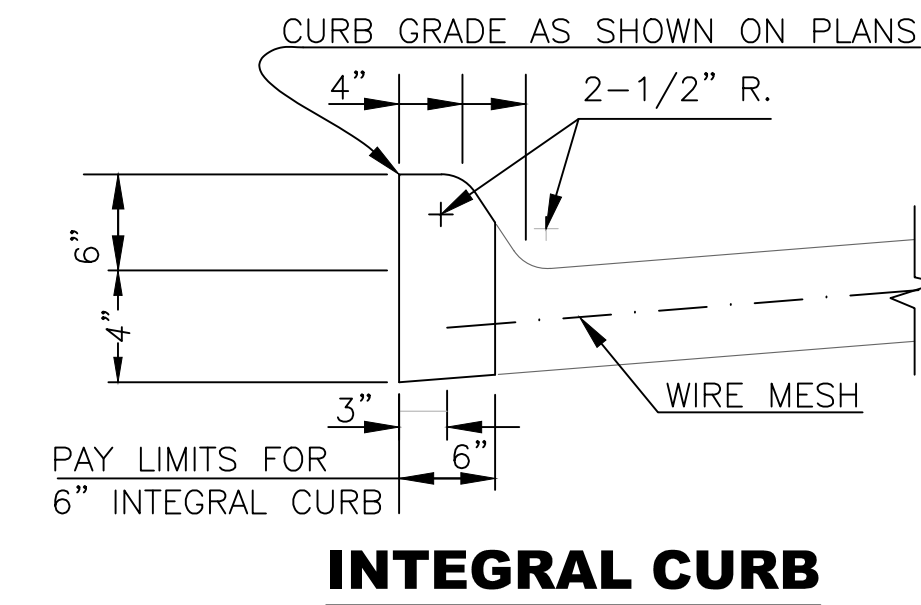
SW 18TH. &
 SW ATWOOD RD. (MBN)
 (Med. Shelter, Trash Can & Bike Rack)

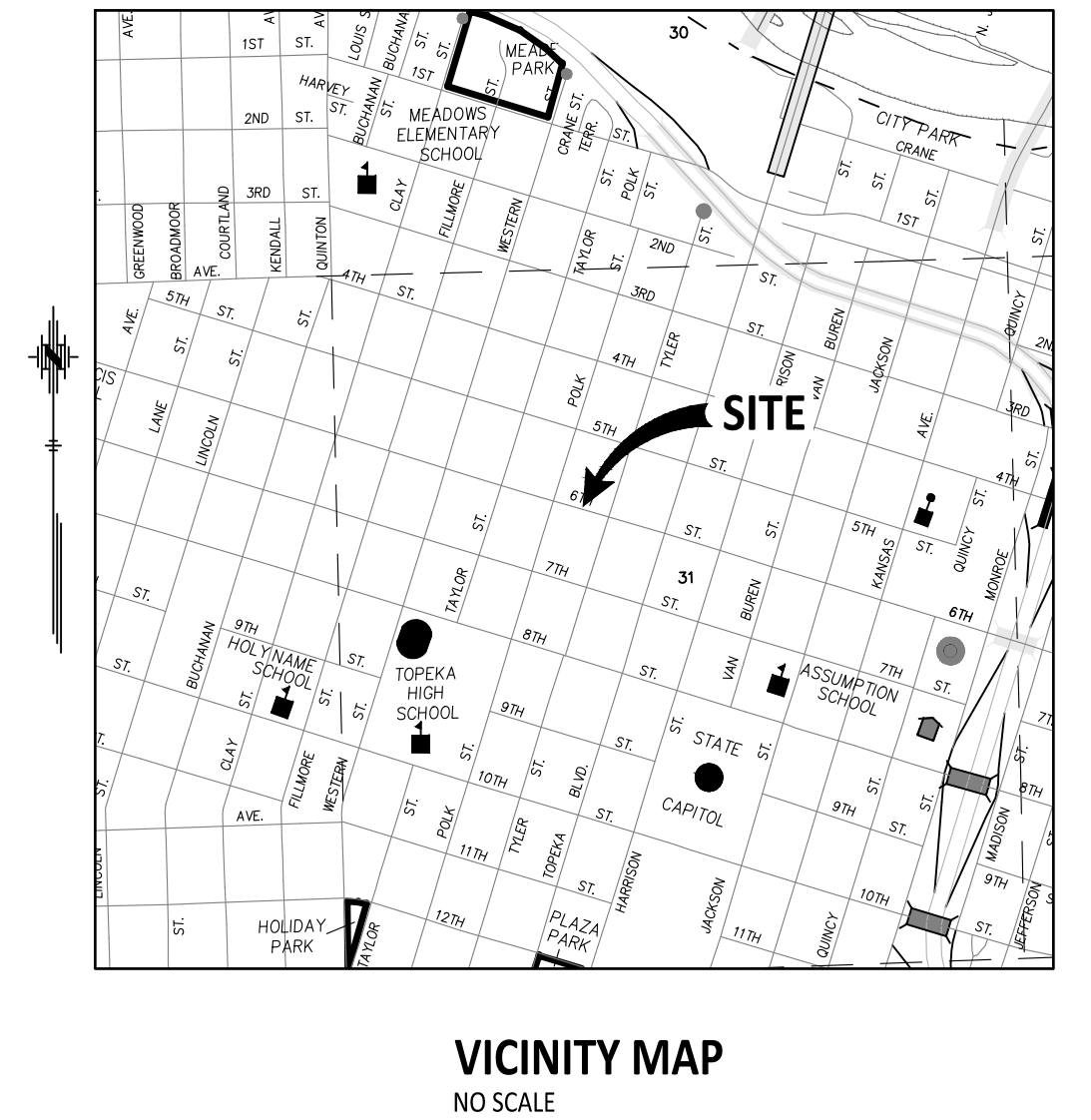
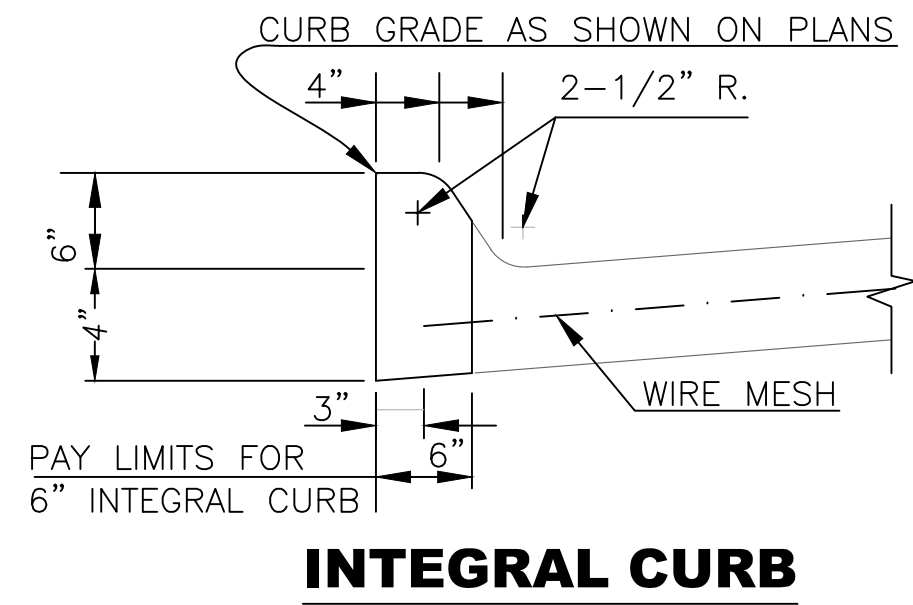
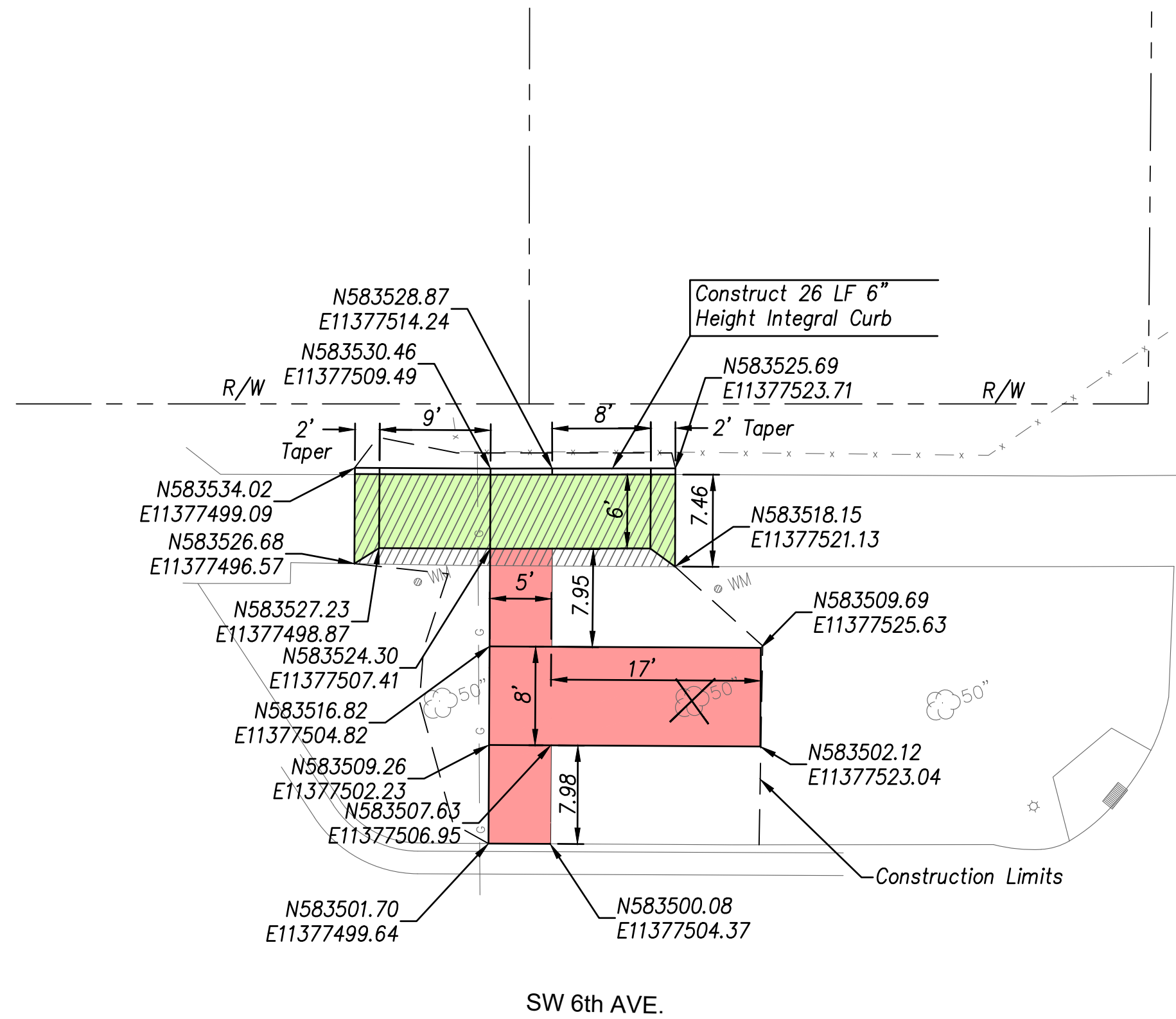
CFS ENGINEERS
 cfse.com
 2890 SW Woodside Dr, Topeka, KS 66614
 © 785-272-4706 F: 785-272-4735

NOTE: TMTA, PHASE 9.2
 CFS PROJECT # 15-5044 DATE: 04/2019
 PROJECT MANAGER: KH SHEET 1 OF 1

CITY OF TOPEKA

SHAWNEE CO., KS

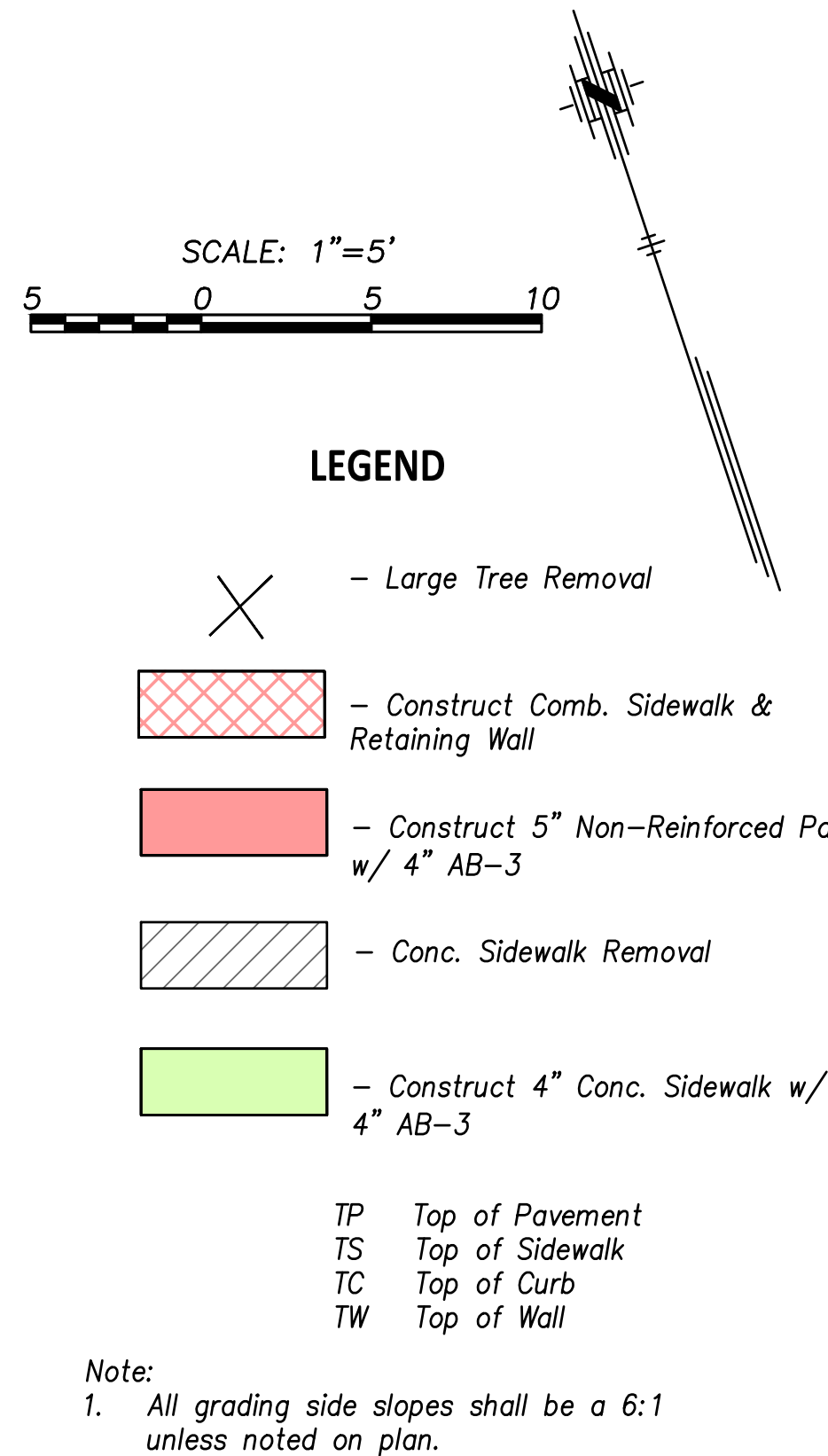
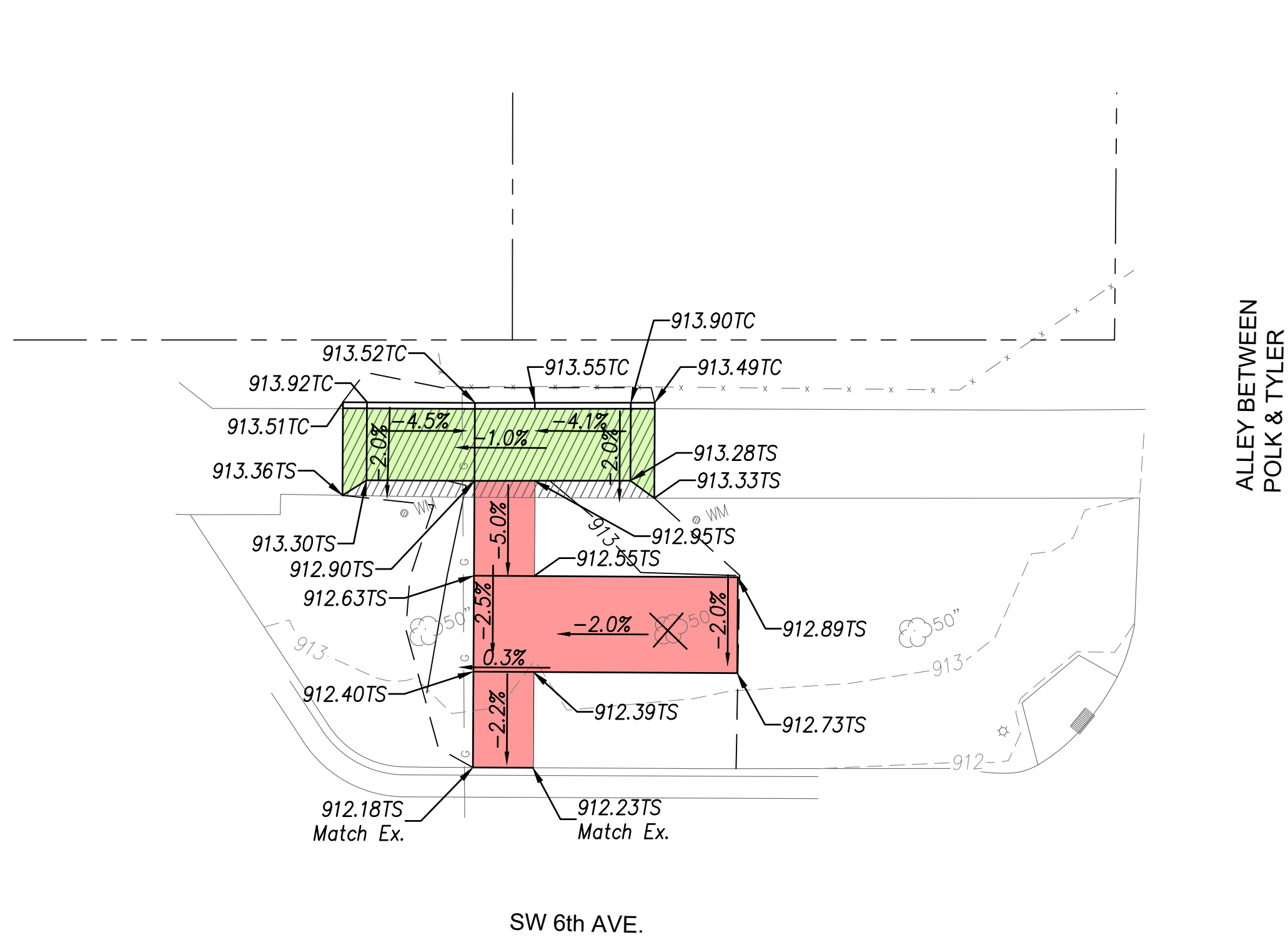




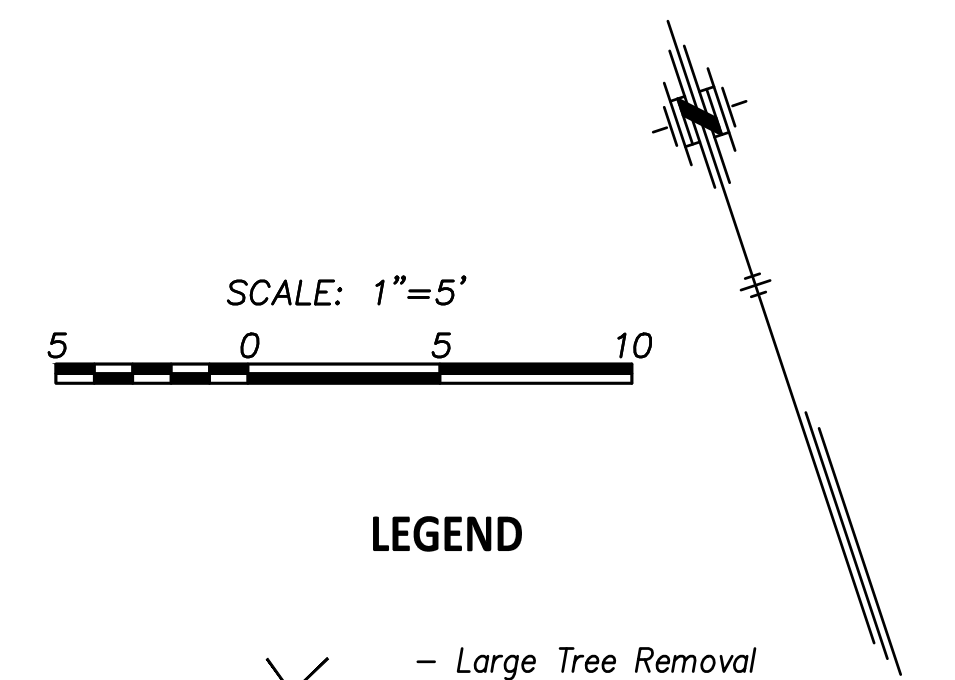
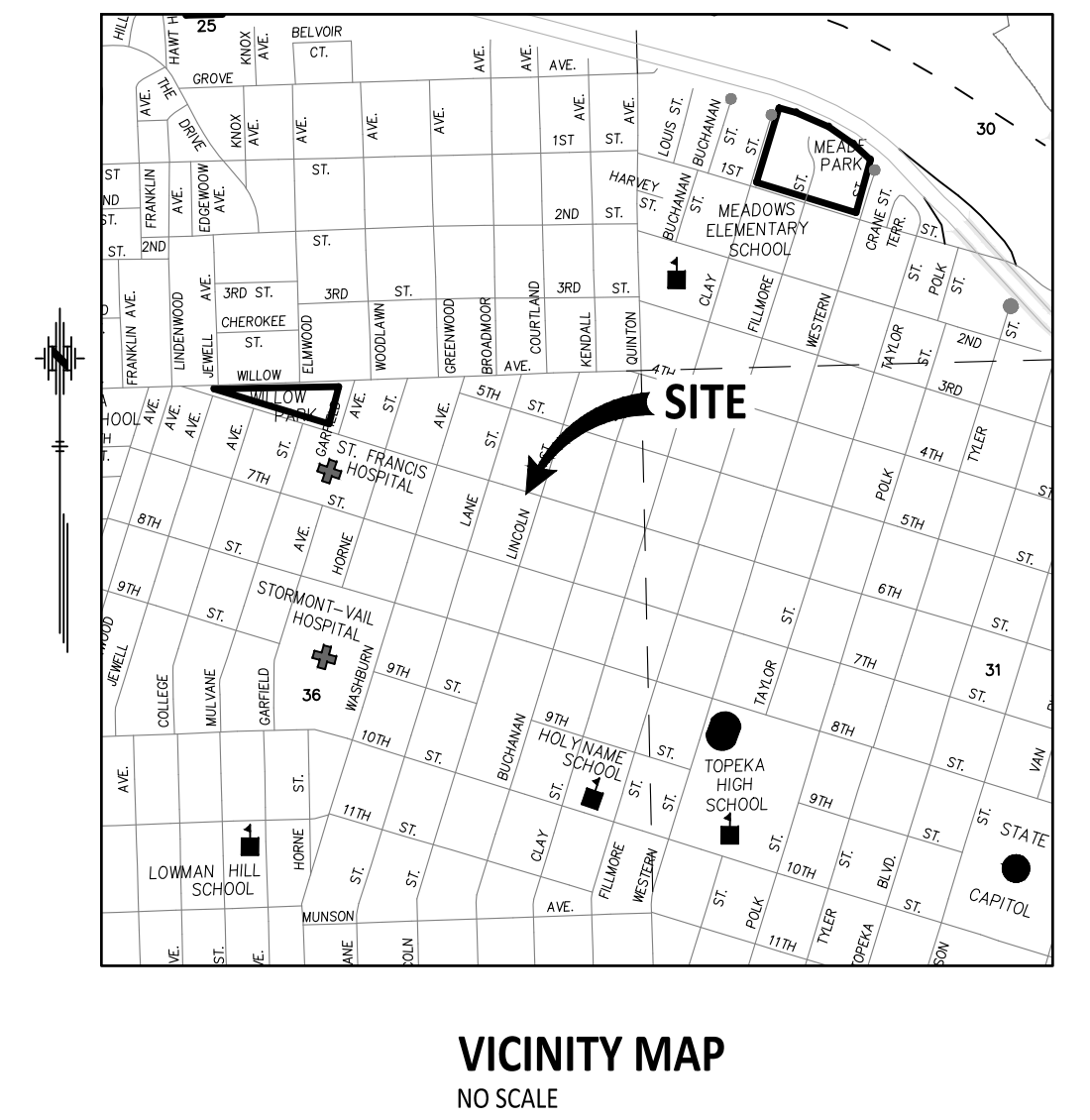
155044 CONTROL TMTA PH 8.5
NAD 83 KRCS ZONE 11
NAVD 88

CP 92211 SET 1/2" REBAR W/CAP (CFS CONTROL)
N: 583425.5410 E: 11377509.6150 EL: 912.73
1) TO SOUTH B/C 6TH AVE 2.9' N
2) TO FACE LP 16.6' E
3) TO NORTH EDGE E-W WALK 19.3' S

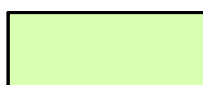
CP 92212 SET "+" CUT @ TOP OF INLET
N: 583485.7910 E: 11377576.4370 EL: 911.94
1) TO NW COR @ B/C 3.6' W
2) TO SE COR INLET 6.3' SSE
3) TO 4" SWMH 3.0' S



Note:
1. All grading side slopes shall be a 6:1 unless noted on plan.



LEGEND

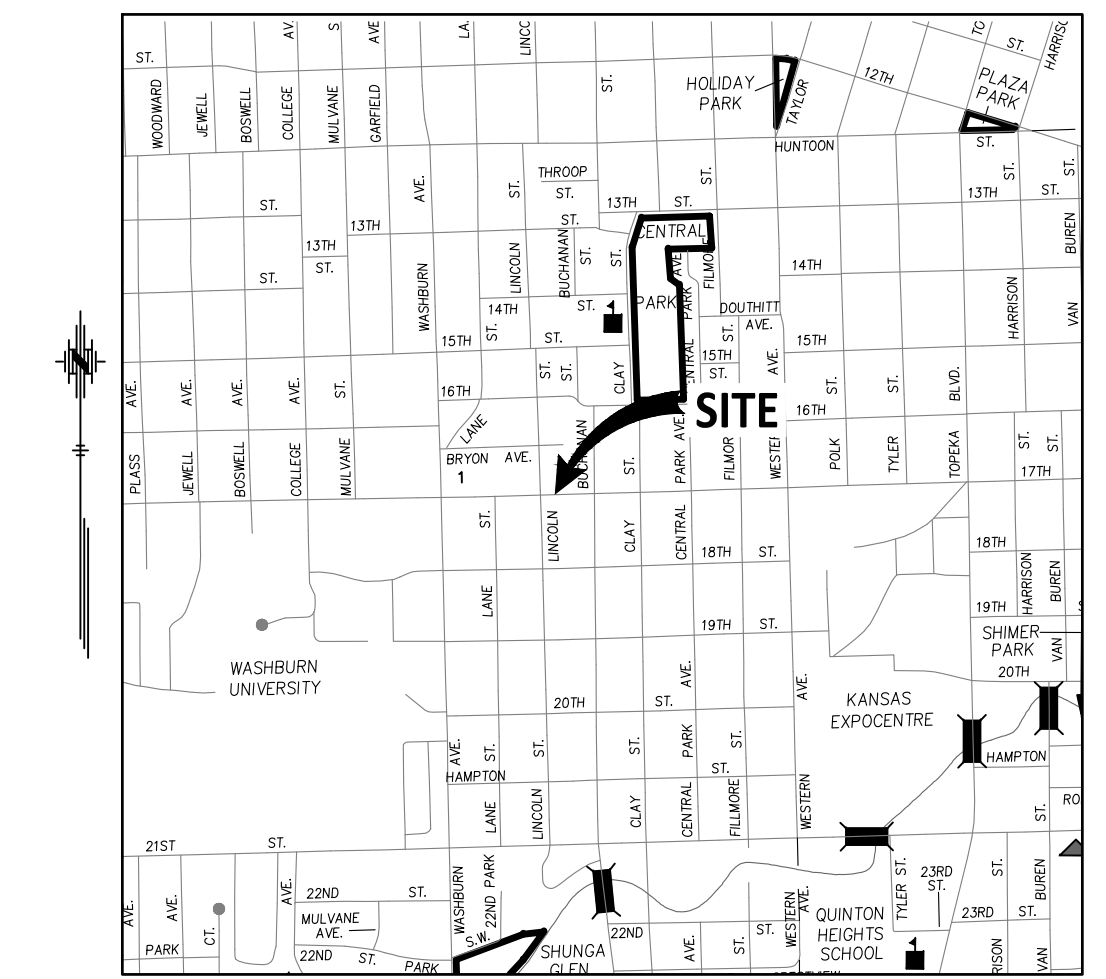
	- Large Tree Removal
	- Construct Comb. Sidewalk & Retaining Wall
	- Construct 5" Non-Reinforced Pad w/ 4" AB-3
	- Conc. Sidewalk Removal
	- Construct 4" Conc. Sidewalk w/ 4" AB-3
TP	Top of Pavement
TS	Top of Sidewalk
TC	Top of Curb
TW	Top of Wall

Note:

1. All grading side slopes shall be a 6:1 unless noted on plan.

**SW 6TH AVE. &
SW LINCOLN ST. (MBS)**
(Bench, Bike Rack & Trash Can)

	ENGINEERS	
	cfse.com	2930 SW Woodside Dr, Topeka, KS 66614 o: 785-272-4706 f: 785-272-4736
NOTE: TMTA , PHASE 9.2		
CFS PROJECT #	15-5044	DATE: 07/2019
PROJECT MANAGER: KH	SHEET 1 OF 1	



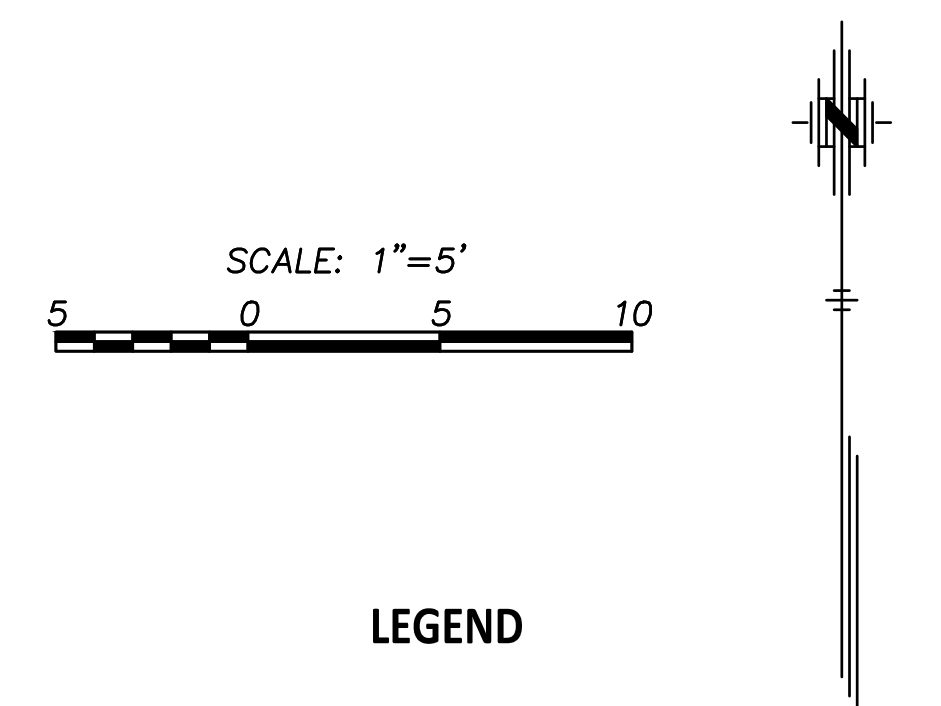
155044 CONTROL TMTA PH 8.5
NAD 83 KRCS ZONE 11
NAVD 88

CP 92111 SET 1/2" REBAR W/CAP (CFS CONTROL)
N: 577307.0930 E: 11373910.8570 EL: 925.53

1) TO SOUTH B/C 17TH ST 2.4' N
2) TO NORTH EDGE E-W WALK 6.8' S
3) TO $\varnothing$ HANDHOLE 10.8' WSW

CP 92112 SET 1/2" REBAR W/CAP (CFS CONTROL)
N: 577307.0710 E: 11373988.0360 EL: 926.52

1) TO SOUTH B/C 17TH ST 2.3' N
2) TO NORTH EDGE E-W WALK 7.0' S
3) TO FACE PP 10.0' ESE



- | | |
|----|-----------------|
| TP | Top of Pavement |
| TS | Top of Sidewalk |
| TC | Top of Curb |
| TW | Top of Wall |

**SW 17TH. ST &
SW LINCOLN ST. (MBS)**
(Bench, Bike Rack & Trash Can)

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o: 785-272-4706 f: 785-272-4736

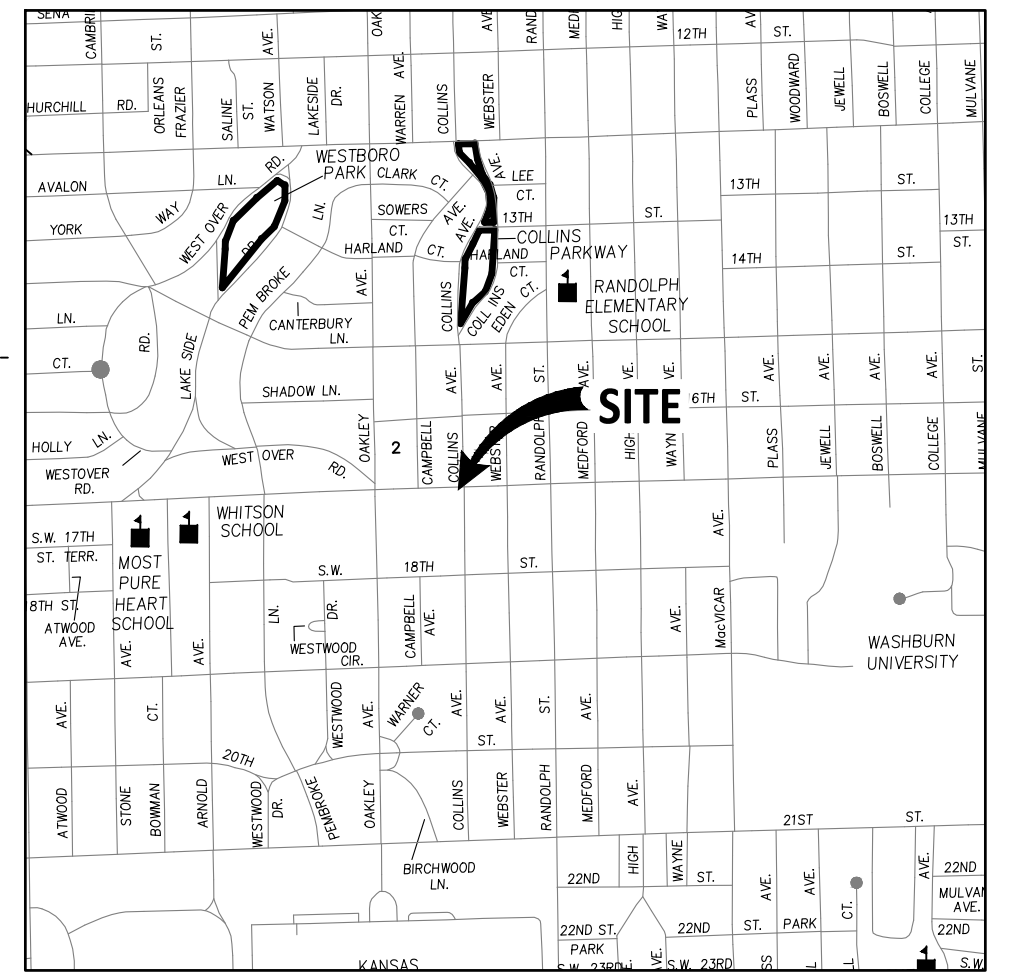
NOTE: TMTA , PHASE 9.2

CFS PROJECT # 15-5044

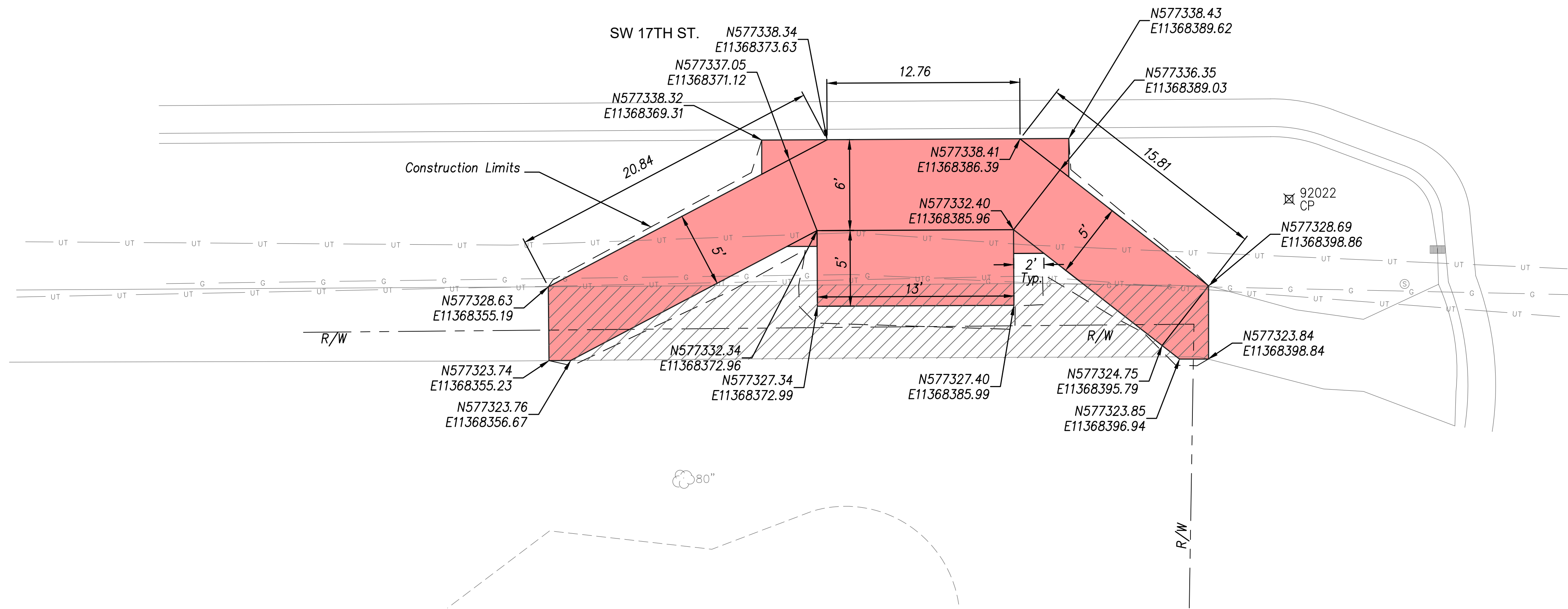
DATE: 04/2019

SHAWNEE CO., KS

CITY OF TOPEKA



VICINITY MAP
NO SCALE

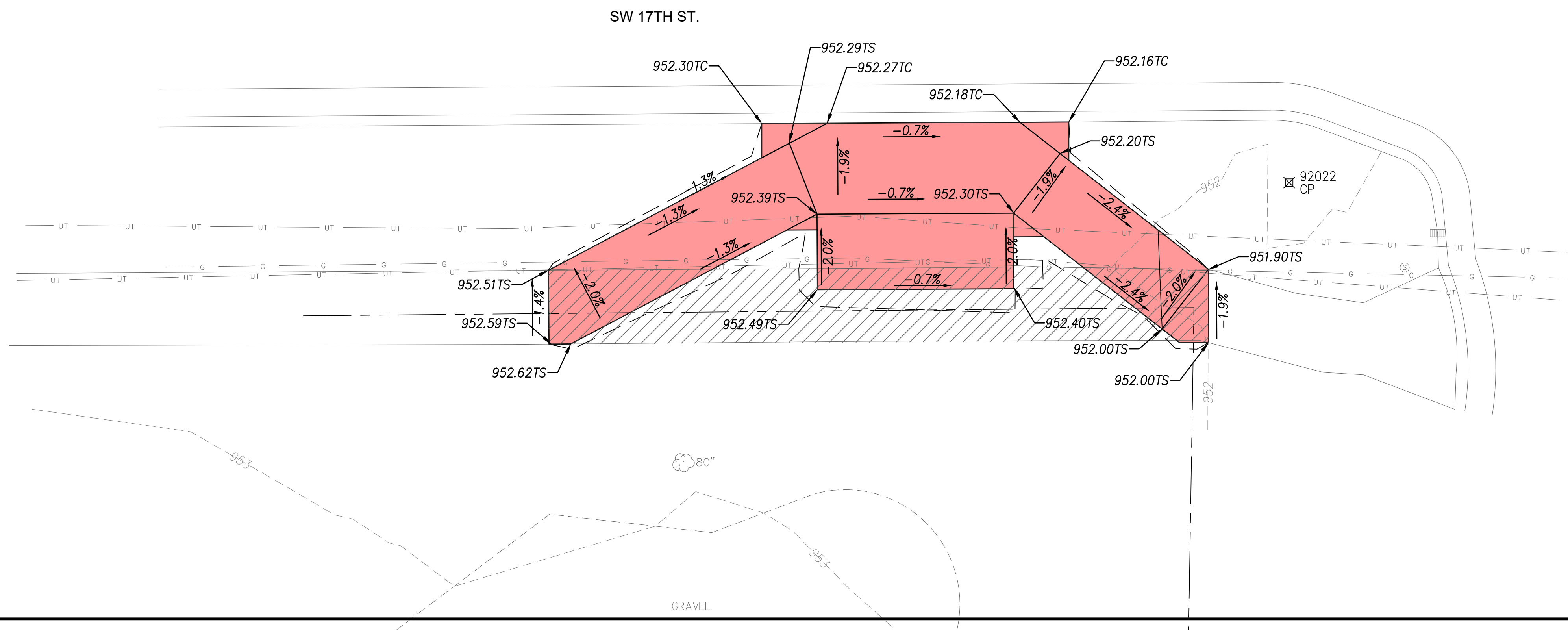


SW COLLINS AVE.

155044 CONTROL TMTA PH 8.5
NAD 83 KRCS ZONE 11
NAVD 88

CP 92021 SET 1/2" REBAR W/CAP (CFS CONTROL)
N: 577333.1000 E: 11368301.5160 EL: 952.87
1) TO SOUTH B/C 17TH ST 5.0' N
2) TO NORTH EDGE E-W WALK 4.8' S
3) TO SIDEWALK PI E-NW 24.7' WSW

CP 92022 SET 1/2" REBAR W/CAP (CFS CONTROL)
N: 577334.4210 E: 11368404.1910 EL: 951.99
1) TO SOUTH B/C 17TH ST 3.8' N
2) TO NORTH EDGE E-W WALK 7.0' S
3) TO SSMH 9.5' SE



SW COLLINS AVE.

SCALE: 1"=5'
5 0 5 10

LEGEND

- Construct Comb. Sidewalk & Retaining Wall
- Construct 5" Non-Reinforced Pad w/ 4" AB-3
- Conc. Sidewalk Removal
- Construct 4" Conc. Sidewalk w/ 4" AB-3

TP Top of Pavement
TS Top of Sidewalk
TC Top of Curb
TW Top of Wall

Note:
1. All grading side slopes shall be a 6:1 unless noted on plan.

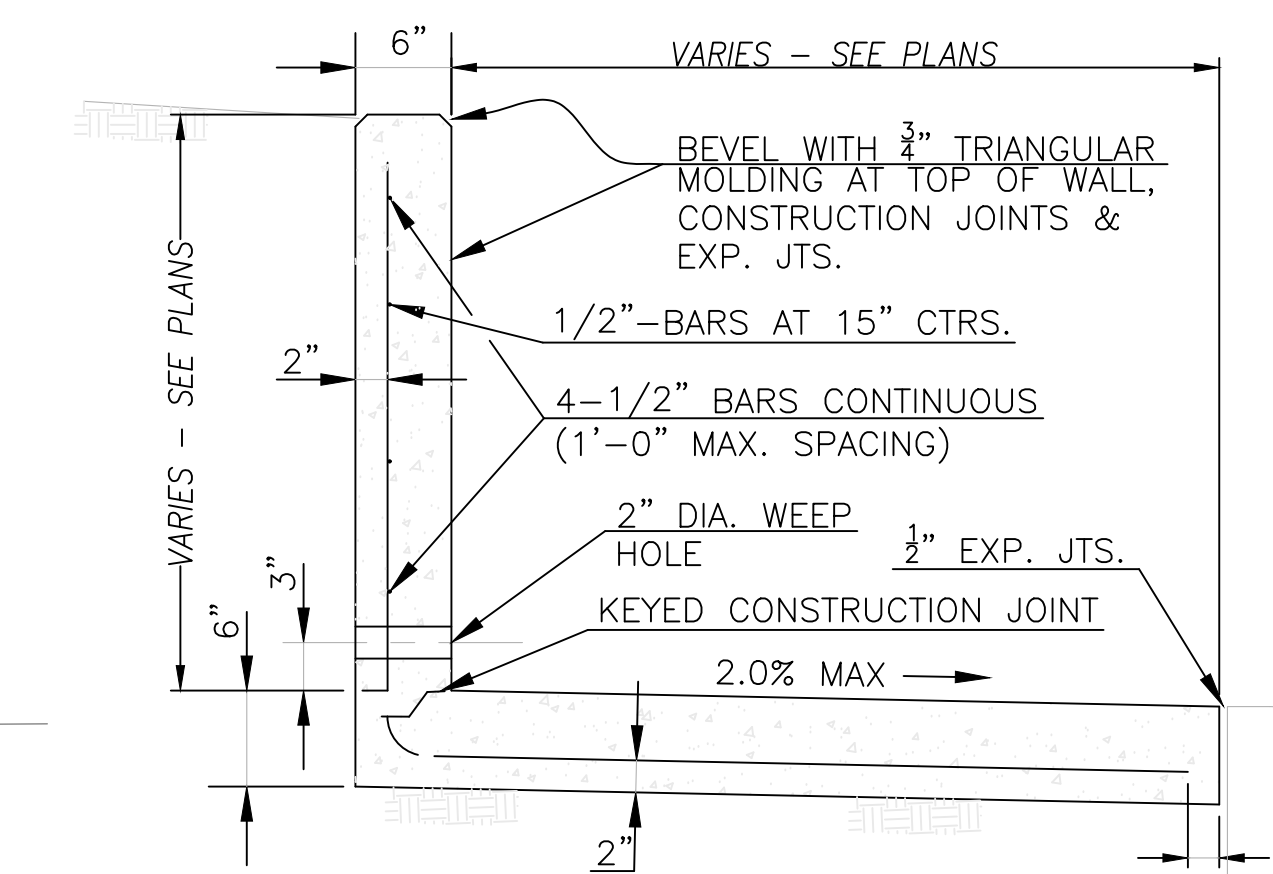
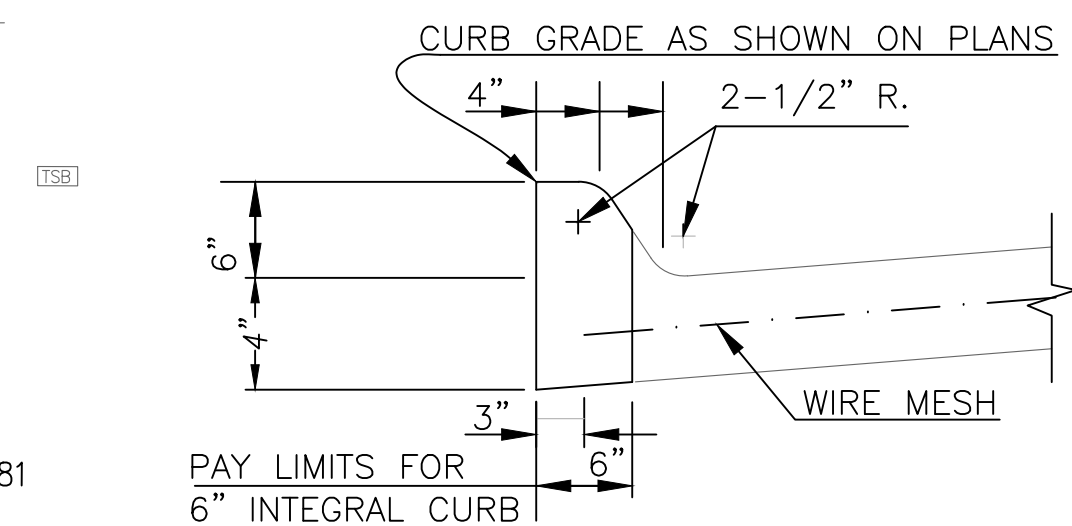
SW 17TH ST. @
SW COLLINS AVE. (SW)
(Bench & Trash Can)

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NOTE: TMTA, PHASE 9.2
CFS PROJECT # 15-5044 DATE: 04/2019
PROJECT MANAGER: KH SHEET 1 OF 1

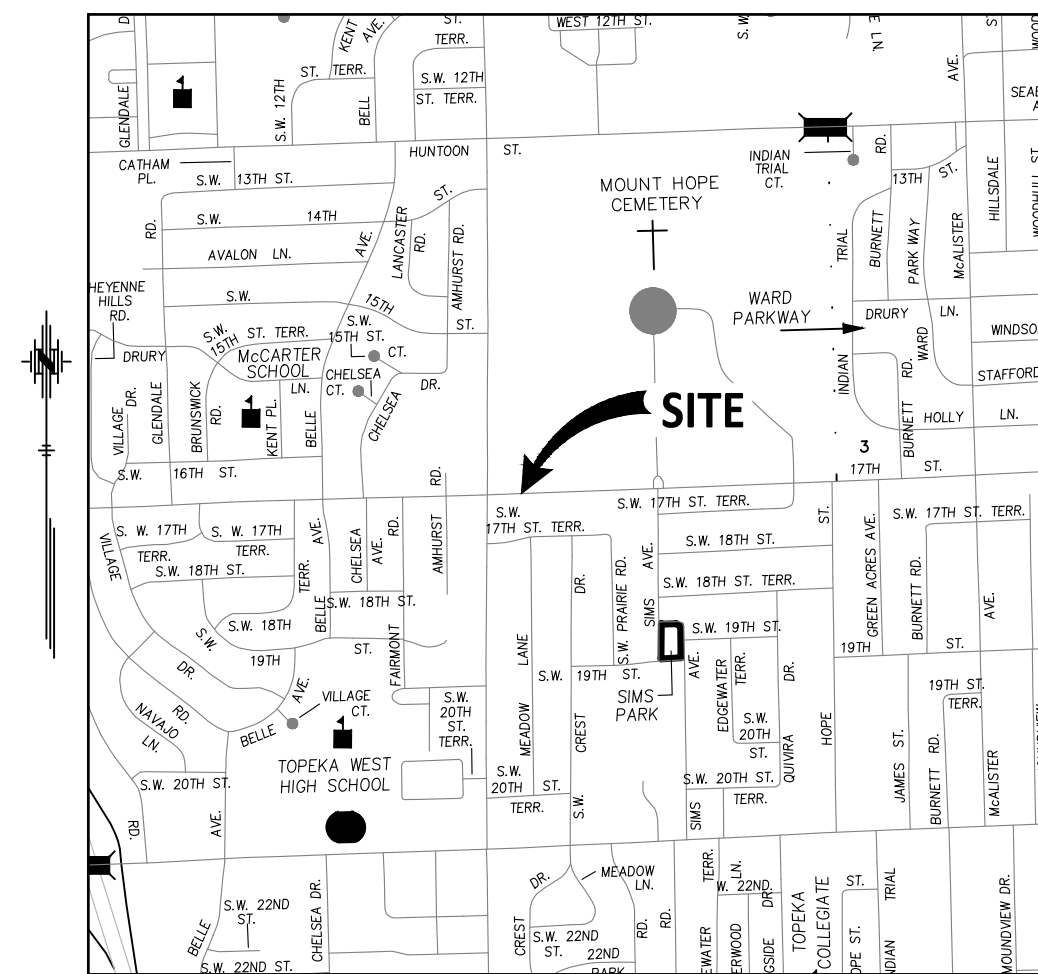
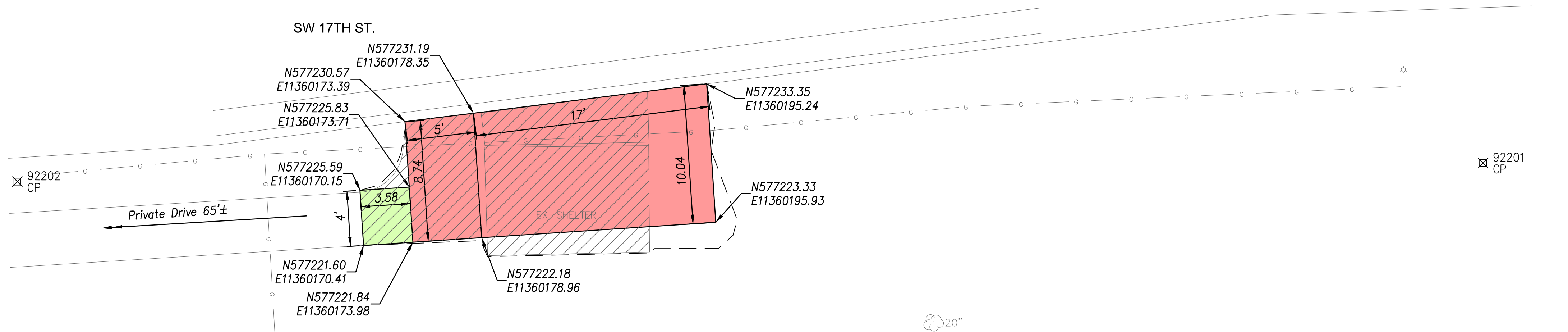
CITY OF TOPEKA

SHAWNEE CO., KS



SHAWNEE CO., KS

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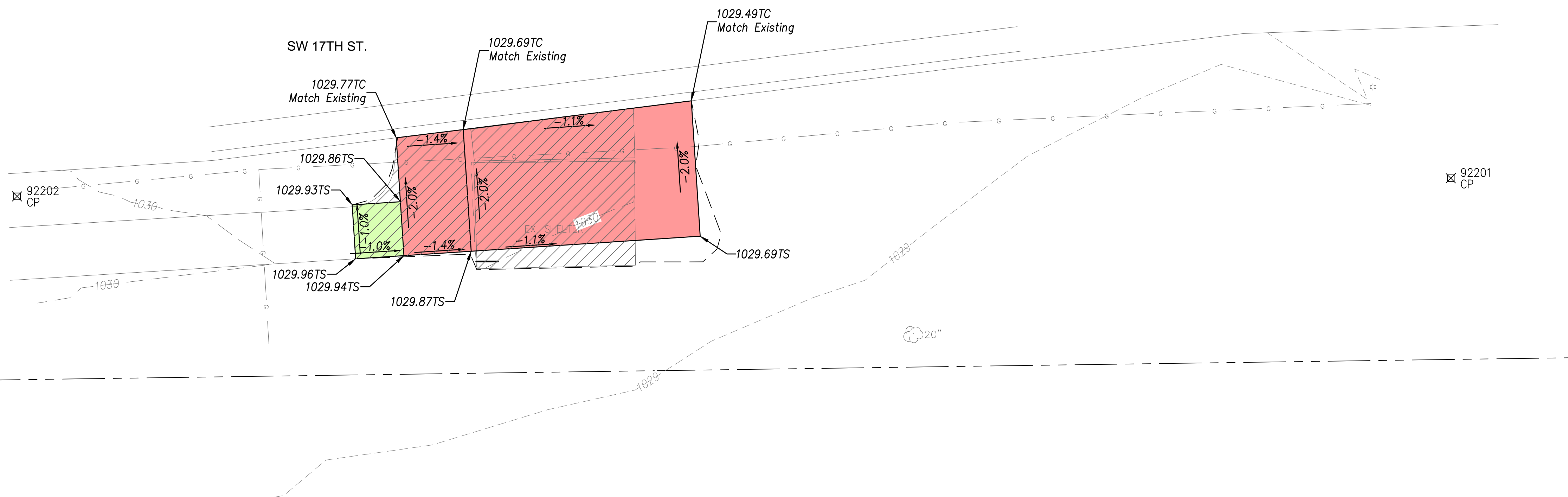


VICINITY MAP
NO SCALE

155044 CONTROL TMTA PH 8.5
NAD 83 KRCS ZONE 11
NAVD 88

CP 92201 SET 1/2" REBAR W/CAP (CFS CONTROL)
N: 577227.7480 E: 11360251.5160 EL: 1028.69
1) TO SOUTH B/C 17TH ST 8.3' N
2) TO LP 11.0' NW
3) TO NORTH SIGN POST (EVERGREEN APT) 4.2' S

CP 92202 SET 1/2" REBAR W/CAP (CFS CONTROL)
N: 577226.1640 E: 11360145.3170 EL: 1030.21
1) TO SOUTH B/C 17TH ST 1.6' N
2) TO NORTH EDGE E-W WALK 2.2' S
3) TO 15" CEDAR 15.7' SE



SCALE: 1"=5'
5 0 5 10

LEGEND

- Construct Comb. Sidewalk & Retaining Wall
- Construct 5" Non-Reinforced Pad w/ 4" AB-3
- Conc. Sidewalk Removal
- Construct 4" Conc. Sidewalk w/ 4" AB-3

TP Top of Pavement
TS Top of Sidewalk
TC Top of Curb
TW Top of Wall

Note:
1. All grading side slopes shall be a 6:1 unless noted on plan.

SW 17TH. ST &
SW FAIRLAWN RD.(MBS)
(Bench, Trash Can & Bike Rack)

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NOTE: TMTA , PHASE 9.2

CFS PROJECT # 15-5044

DATE: 04/2019

PROJECT MANAGER: KH

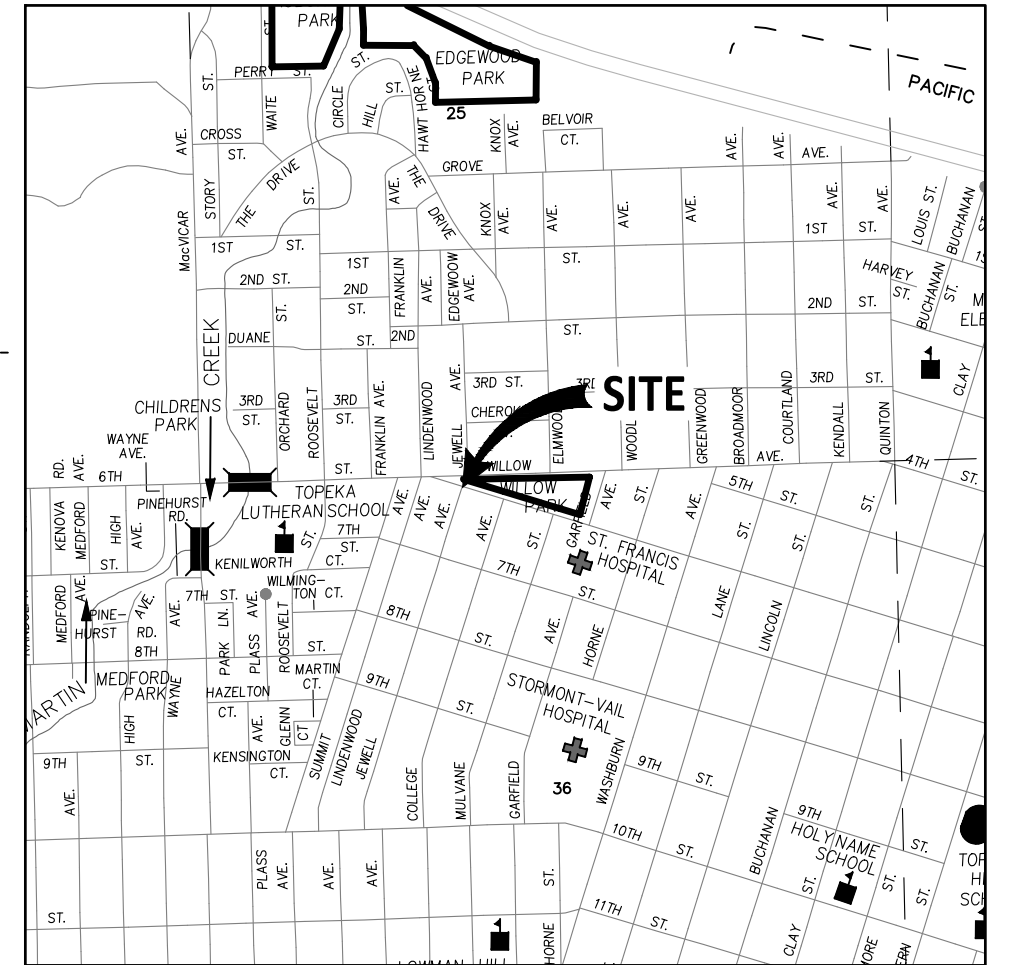
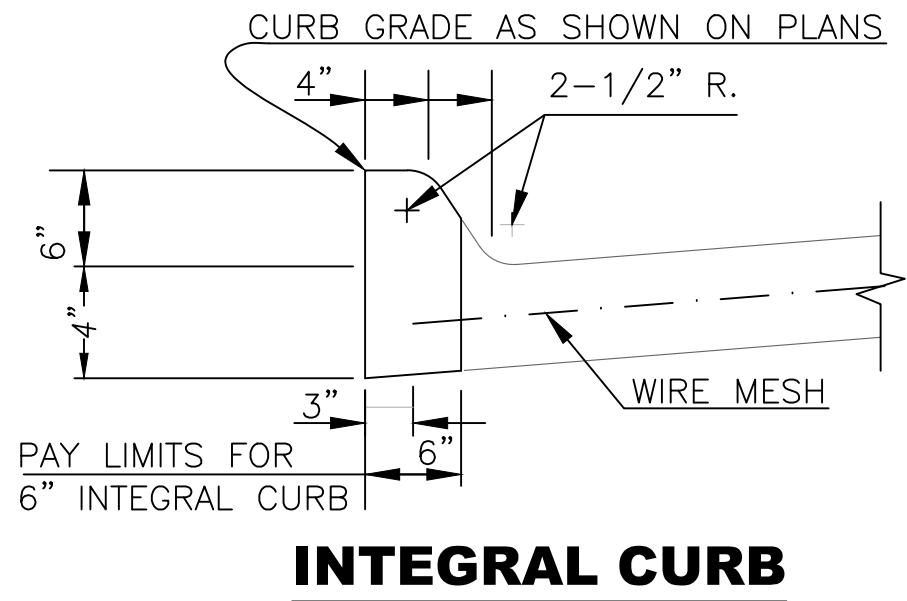
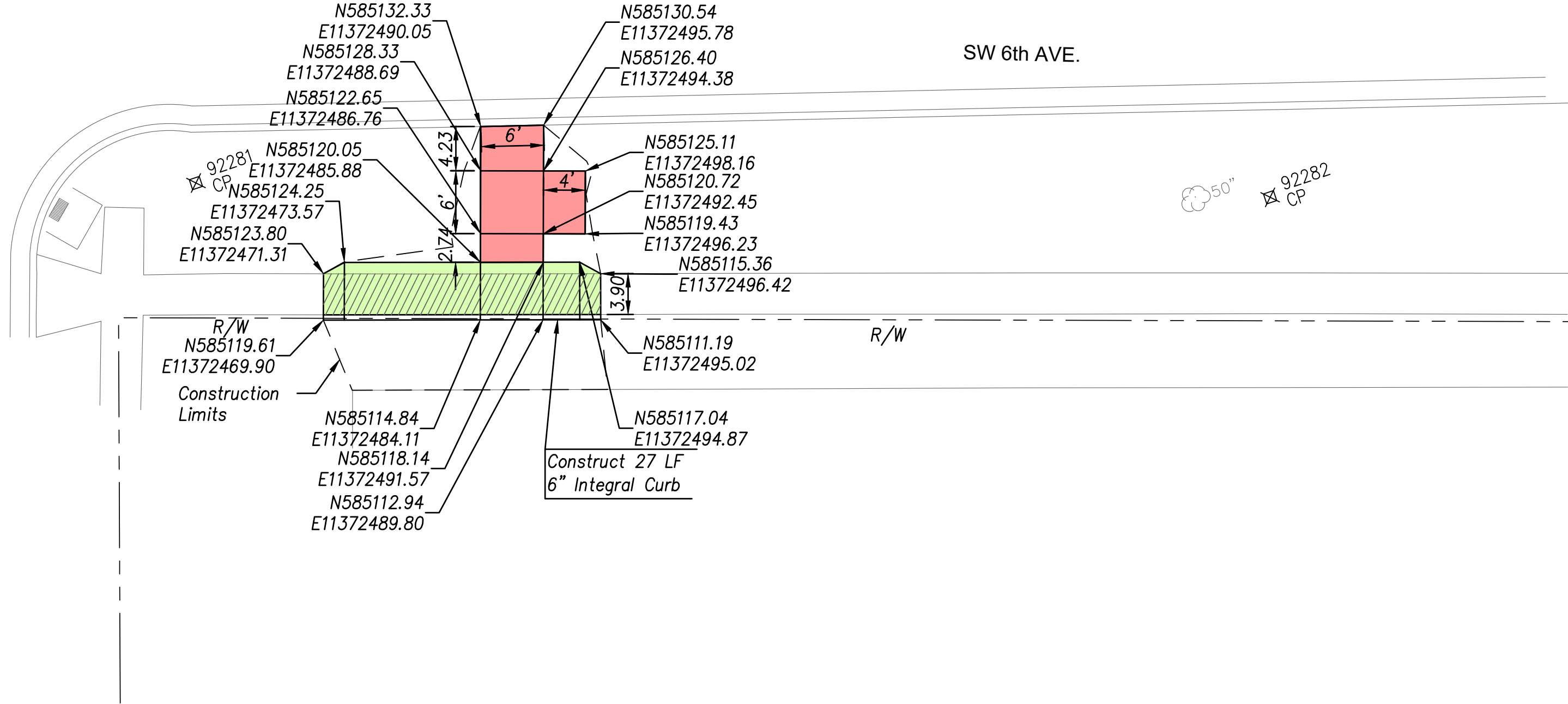
SHEET 1 OF 1

CITY OF TOPEKA

SHAWNEE CO., KS

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SW JEWELL AVE.



VICINITY MAP
NO SCALE

155044 CONTROL TMTA PH 8.5
NAD 83 KRCS ZONE 11
NAVD 88

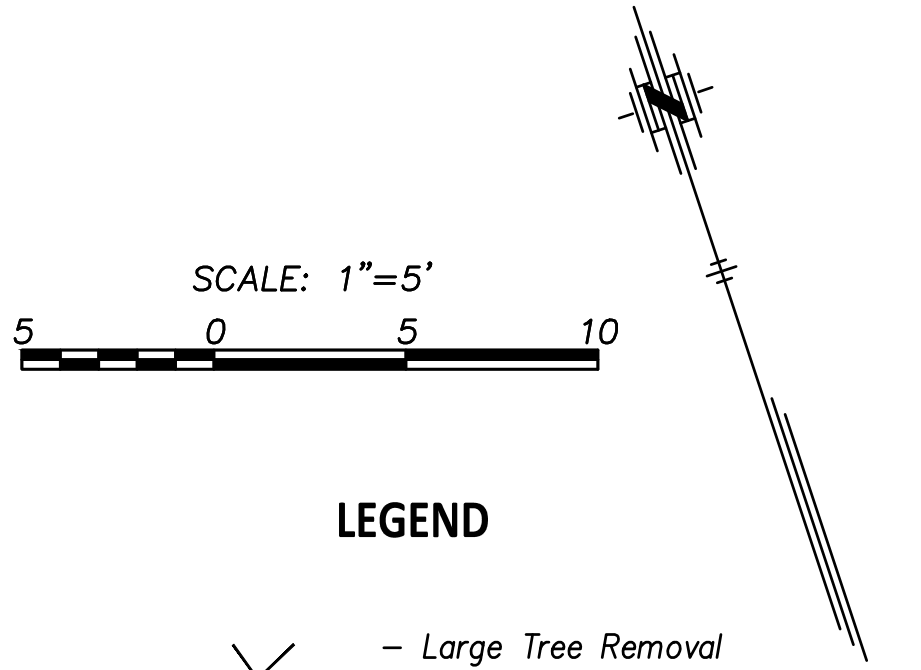
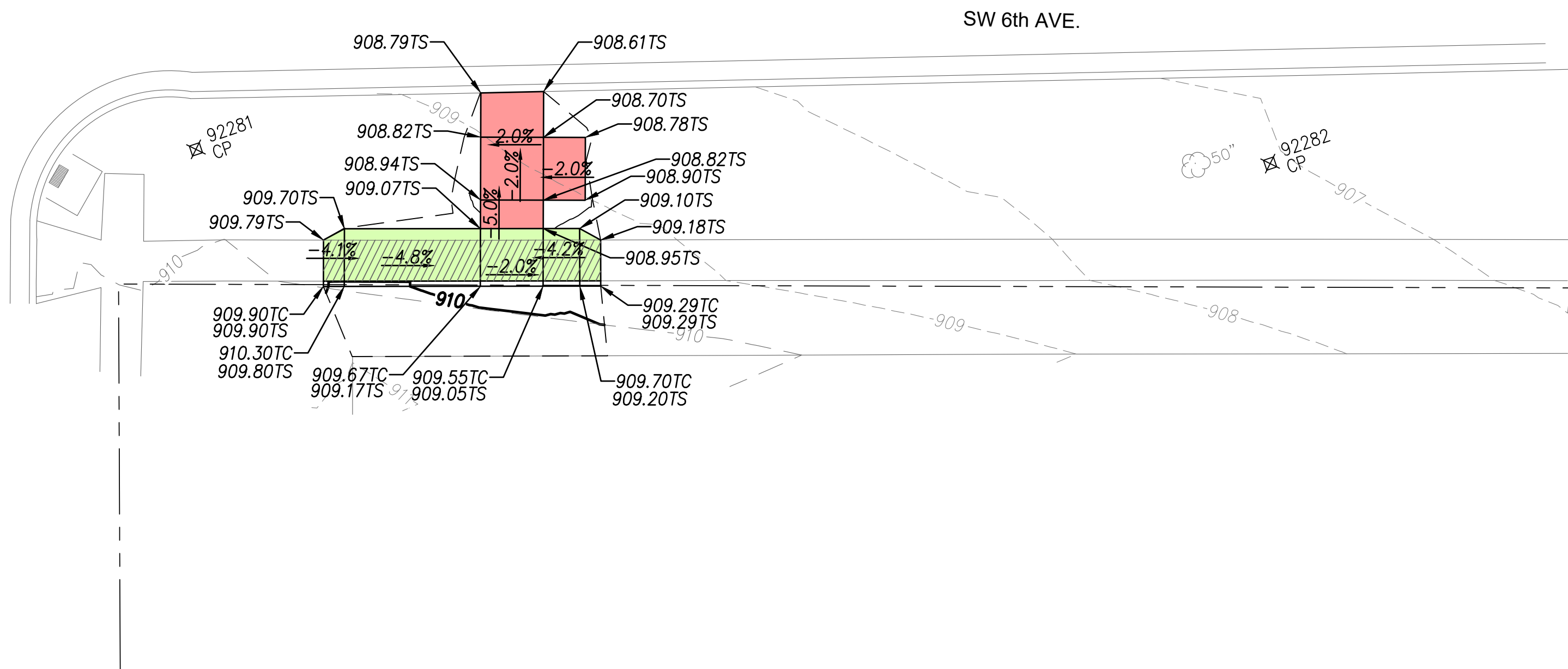
CP 92281 SET 1/2" REBAR W/CAP (CFS CONTROL)
N: 585135.904 E: 11372462.530 EL: 909.76

- 1) TO SOUTH B/C 6TH AVE 4.8' N
- 2) TO NORTH EDGE E-W WALK 8.8' S
- 3) TO NE COR INLET 9.0' W

CP 92282 SET 1/2" REBAR W/CAP (CFS CONTROL)
N: 585101.859 E: 11372559.377 EL: 907.25

- 1) TO SOUTH B/C 6TH AVE 8.3' N
- 2) TO NORTH EDGE E-W WALK 7.1' S
- 3) TO 50' STUMP 7.2' W

SW JEWELL AVE.



LEGEND

Large Tree Removal

Construct Comb. Sidewalk & Retaining Wall

Construct 5" Non-Reinforced Pad w/ 4" AB-3

Conc. Sidewalk Removal

Construct 4" Conc. Sidewalk w/ 4" AB-3

TP Top of Pavement
TS Top of Sidewalk
TC Top of Curb
TW Top of Wall

Note:
1. All grading side slopes shall be a 6:1 unless noted on plan.

SW 6TH AVE. &
SW JEWEL AVE. (SE)
(Standing Pad & Bike Rack)

CITY OF TOPEKA

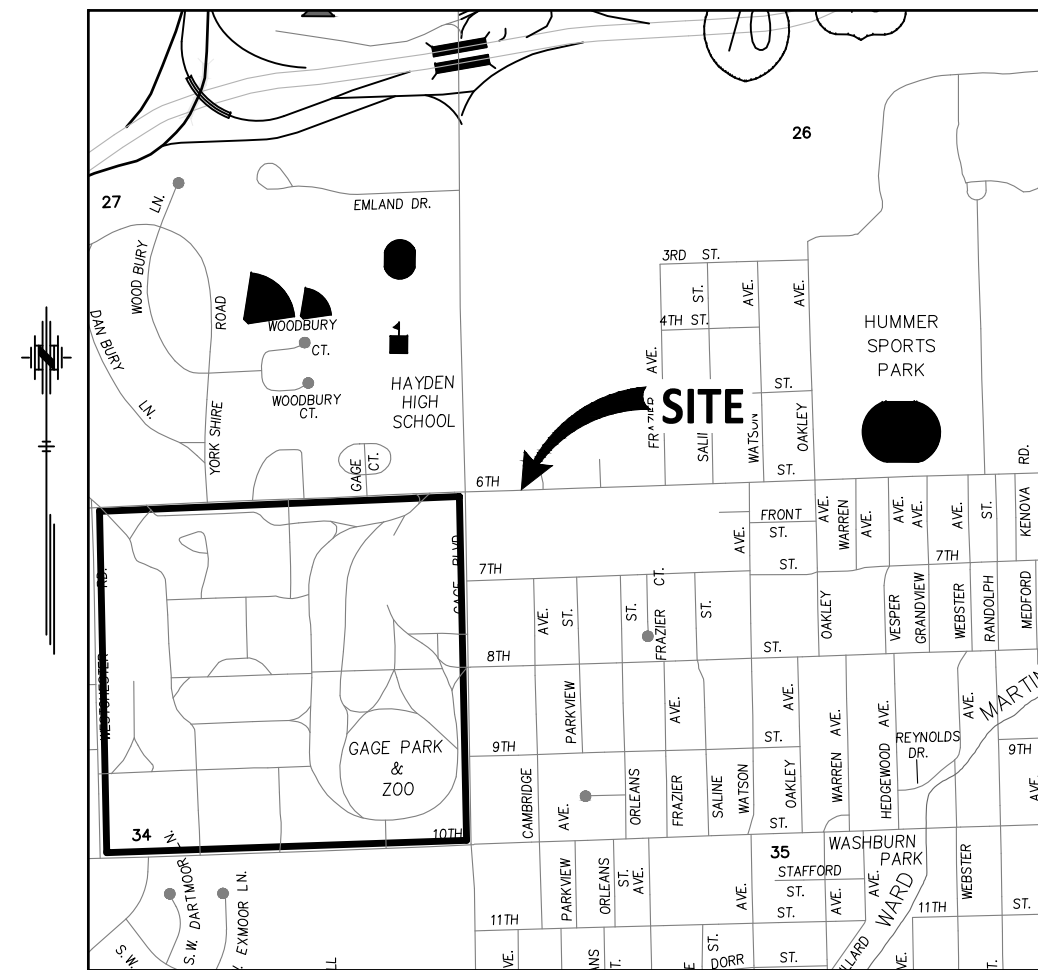
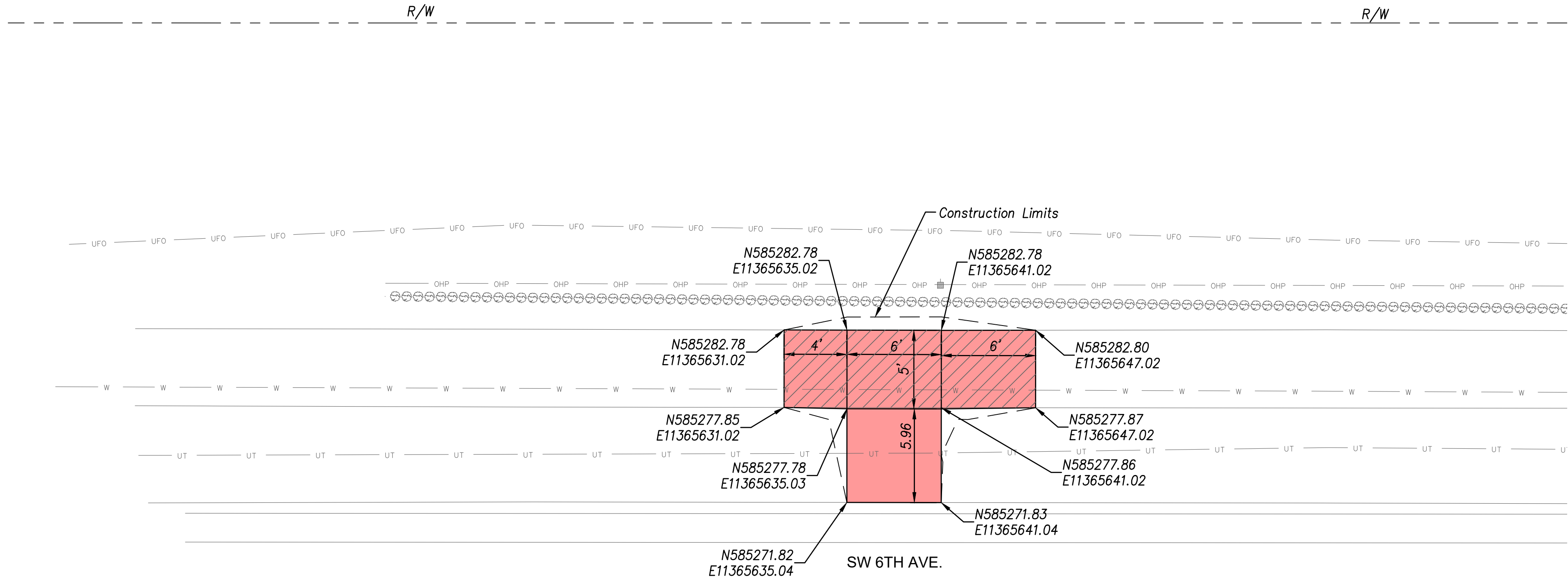
SHAWNEE CO., KS

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NOTE: TMTA, PHASE 9.2

CFS PROJECT # 15-5044 DATE: 07/2019

PROJECT MANAGER: KH SHEET 1 OF 1

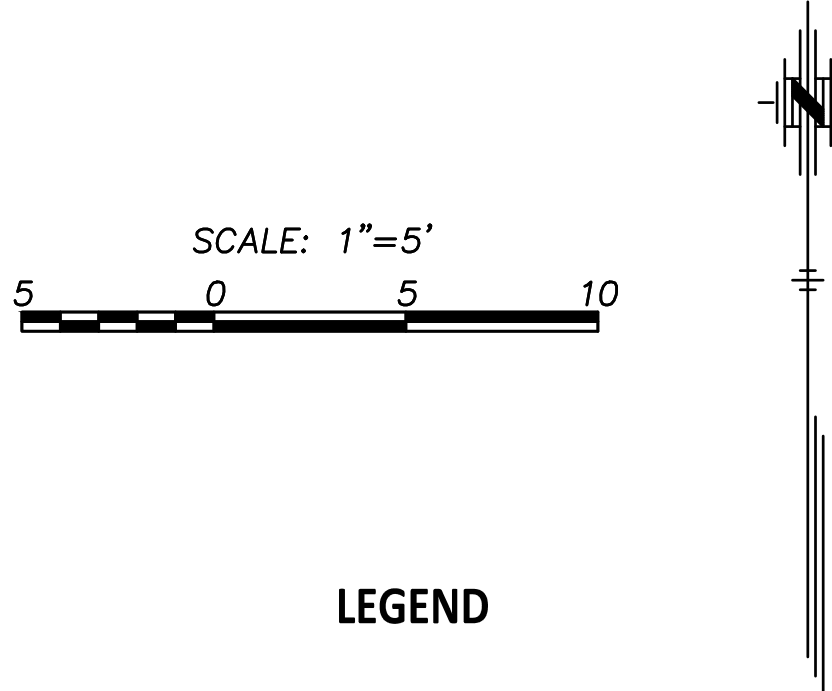


VICINITY MAP
NO SCALE

155044 CONTROL TMTA PH 8.5
NAD 83 KRCS ZONE 11
NAVD 88

CP 92121 SET 1/2" REBAR W/CAP (CFS CONTROL)
N: 585276.7340 E: 11365762.4510 EL: 931.72
1) TO NORTH B/C 6TH AVE 4.7' S
2) TO SOUTH EDGE E-W WALK 1.2' N
3) TO 6" HANDHOLE 8.2' ESE

CP 92122 SET 1/2" REBAR W/CAP (CFS CONTROL)
N: 585275.2710 E: 11365573.4400 EL: 928.50
1) TO NE COR INLET 3.1' S
2) TO SOUTH EDGE E-W WALK 2.5' N
3) TO NW COR INLET 5.7' SW



Note:
1. All grading side slopes shall be a 6:1
unless noted on plan.

SW 6TH ST @ STORMONT VAIL
(MBN)
(Standing Pad)

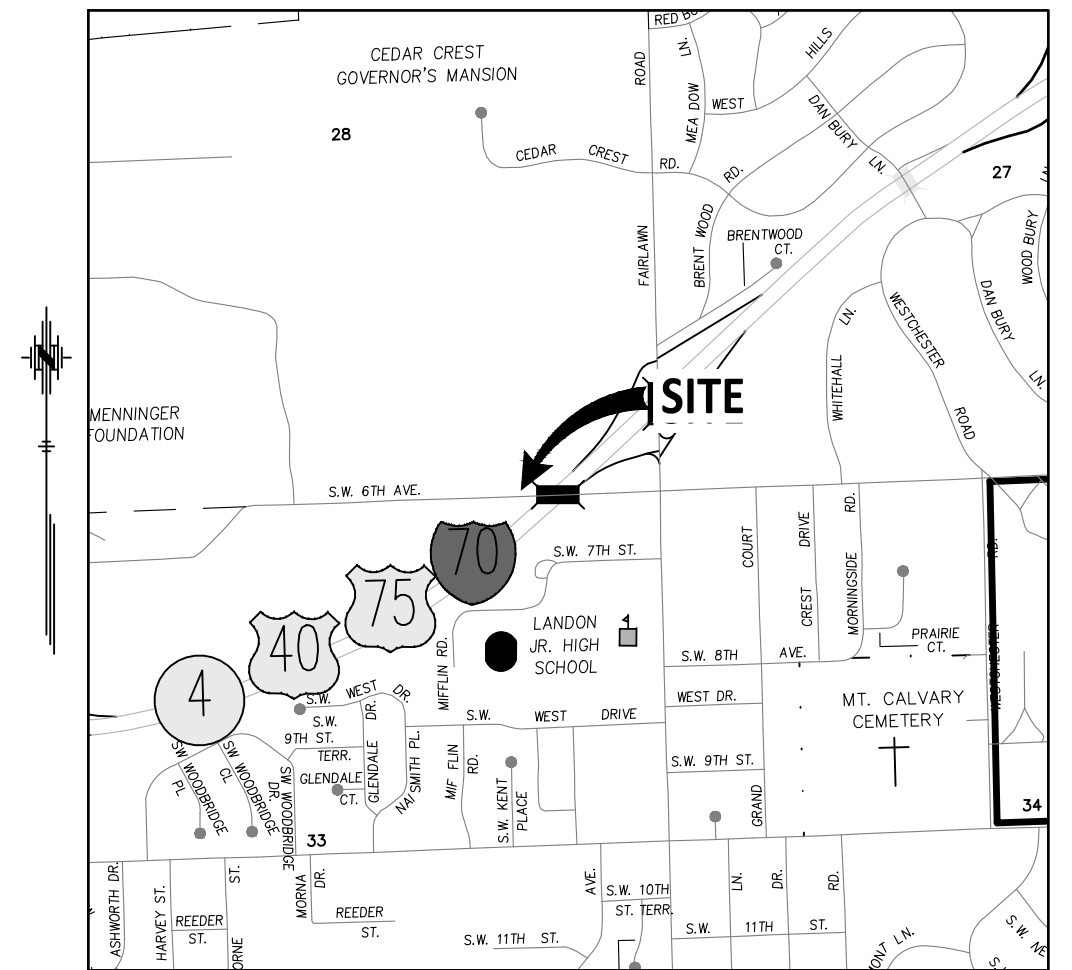
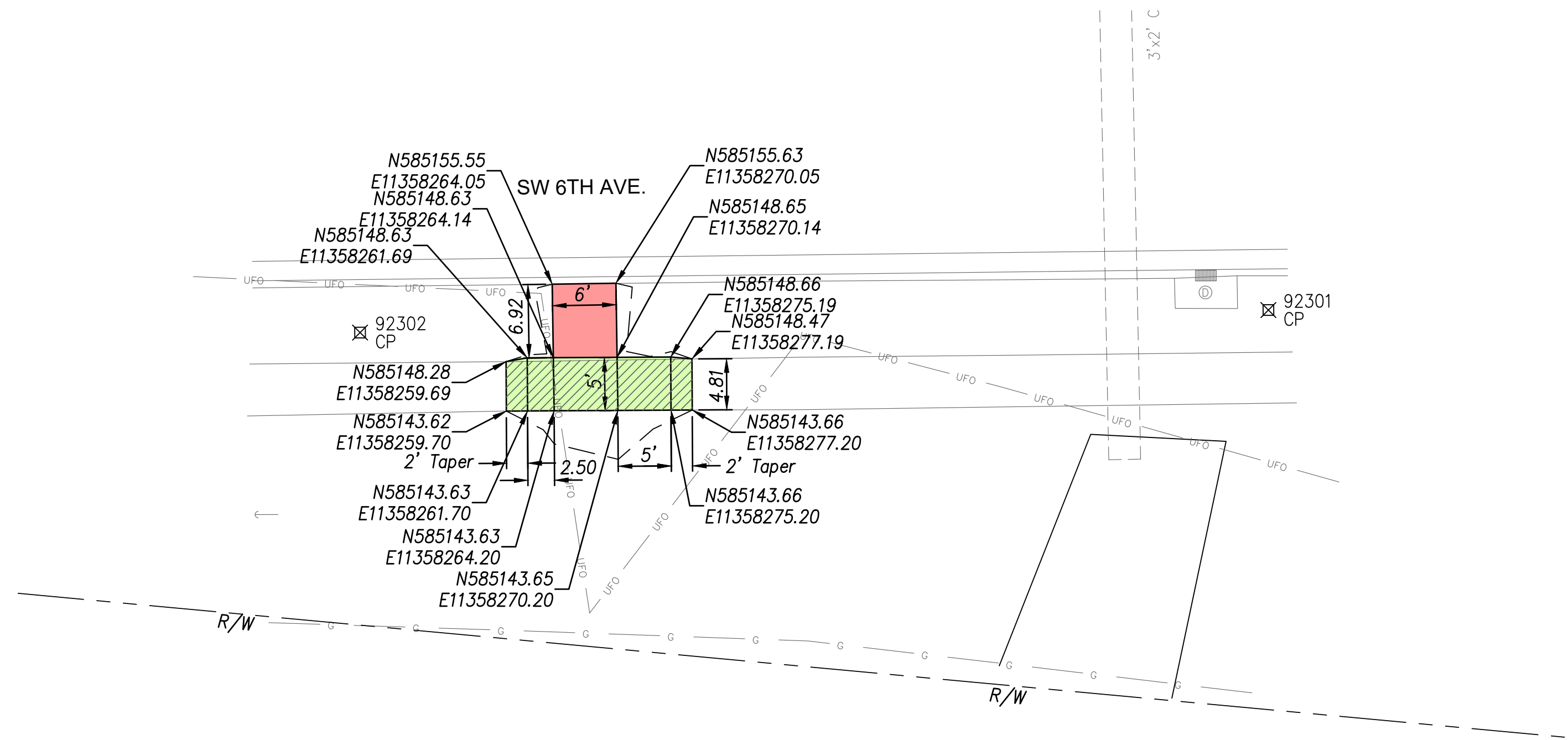
CFS

ENGINEERS

cfse.com

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P: 785-272-4706 F: 785-272-4735

NOTE: TMTA, PHASE 9.2		
CFS PROJECT #	15-5044	DATE: 04/2019
PROJECT MANAGER:	KH	SHEET 1 OF 1

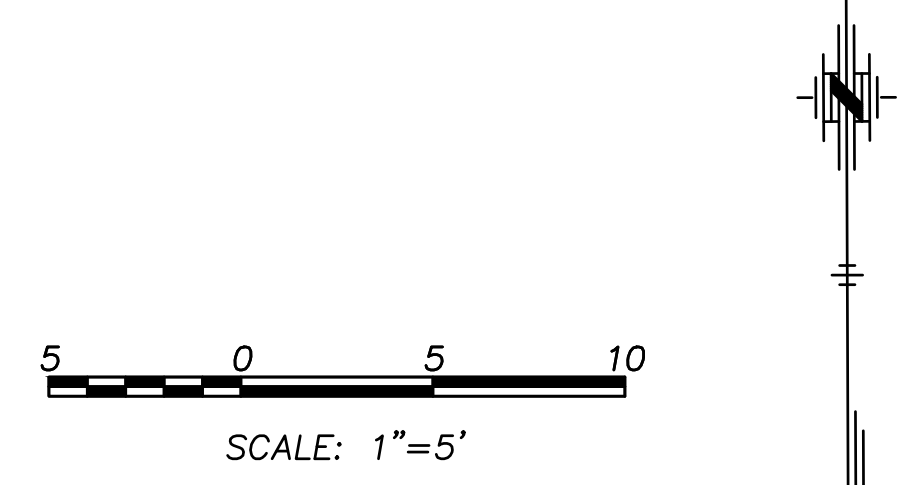
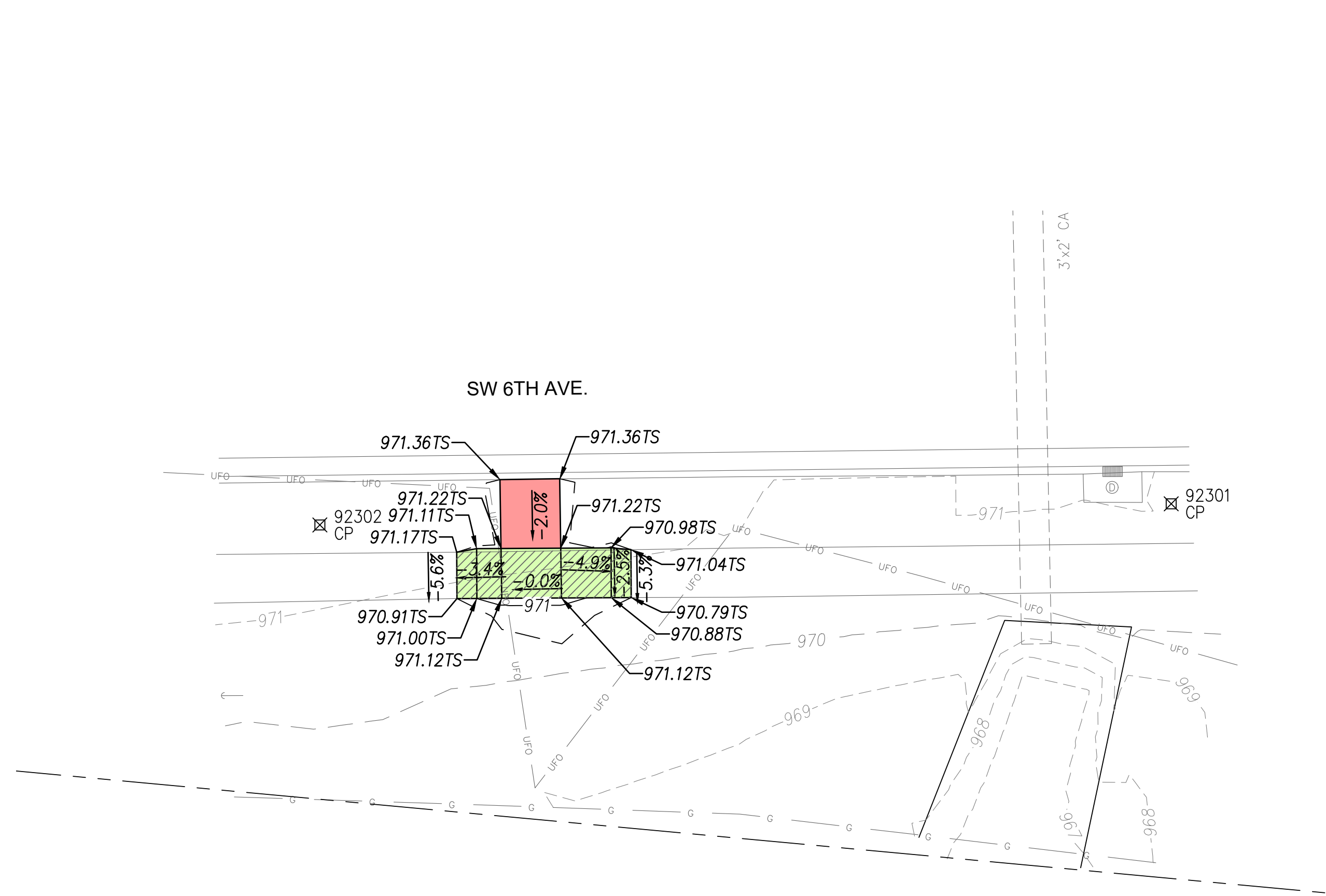


VICINITY MAP
NO SCALE

155044 CONTROL TMTA PH 8.5
NAD 83 KRCS ZONE 11
NAVD 88

CP 92301 SET 1/2" REBAR W/CAP (CFS CONTROL)
N: 585152.9020 E: 11358331.4610 EL: 970.93
1) TO SOUTH B/C 6TH AVE 3.1' N
2) TO NE COR CURB INLET @ B/C 4.1' NW
3) TO SE COR CURB INLET 2.8' W

CP 92302 SET 1/2" REBAR W/CAP (CFS CONTROL)
N: 585151.0550 E: 11358245.9560 EL: 971.39
1) TO SOUTH B/C 6TH AVE 4.3' N
2) TO NORTH EDGE E-W WALK 2.9' S
3) TO GUY WIRE 20.0' SW



SCALE: 1"=5'

LEGEND

- Large Tree Removal
- Construct Comb. Sidewalk & Retaining Wall
- Construct 5" Non-Reinforced Pad w/ 4" AB-3
- Conc. Sidewalk Removal
- Construct 4" Conc. Sidewalk w/ 4" AB-3
- TP Top of Pavement
- TS Top of Sidewalk
- TC Top of Curb
- TW Top of Wall

Note:
1. All grading side slopes shall be a 6:1 unless noted on plan.

SW 6TH ST. &
SW GOVERNOR'S LAKE RD.
(Standing Pad)

CITY OF TOPEKA

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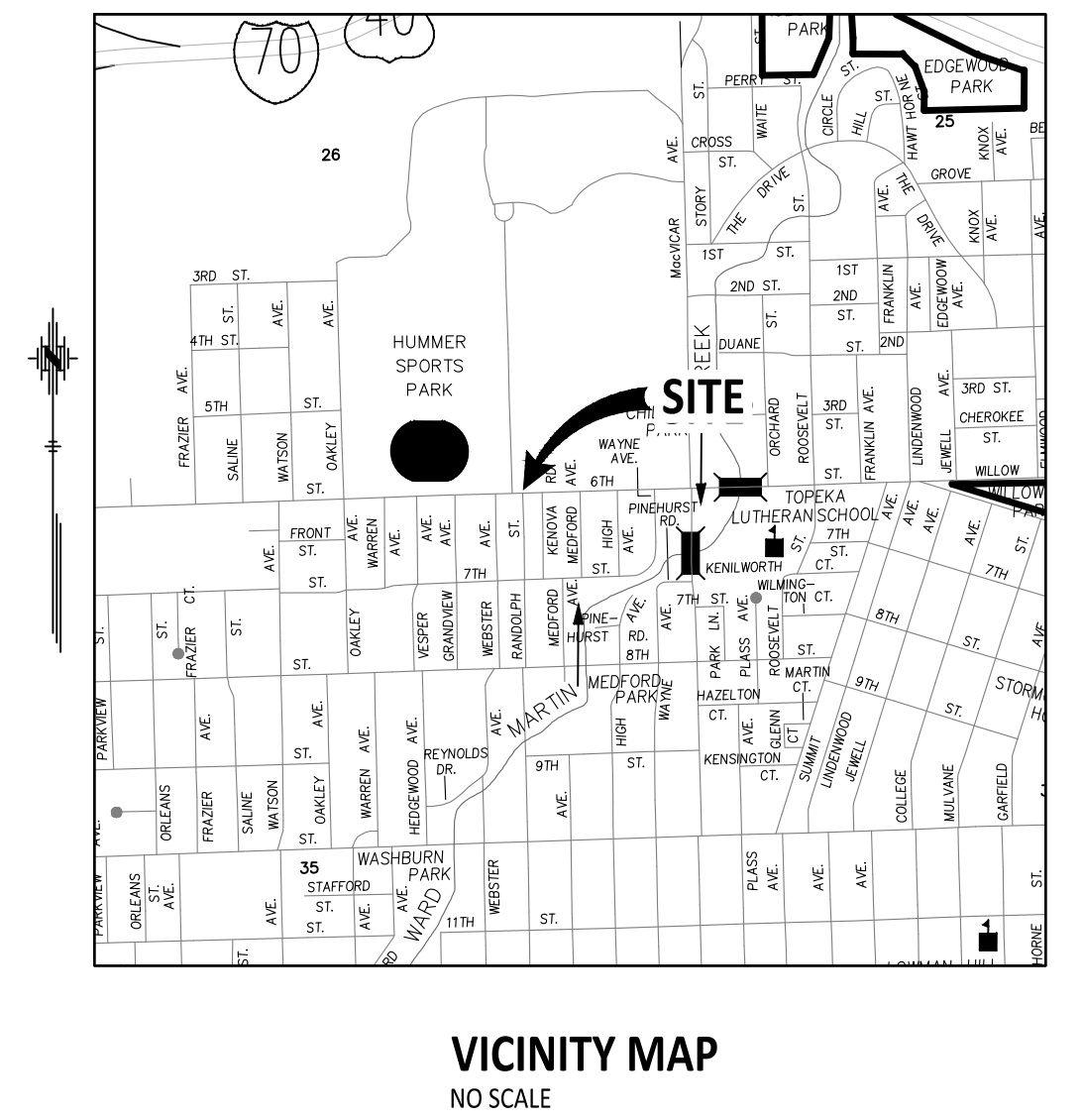
cfse.com

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P: 785-272-4706 F: 785-272-4735

NOTE: TMTA , PHASE 9.2

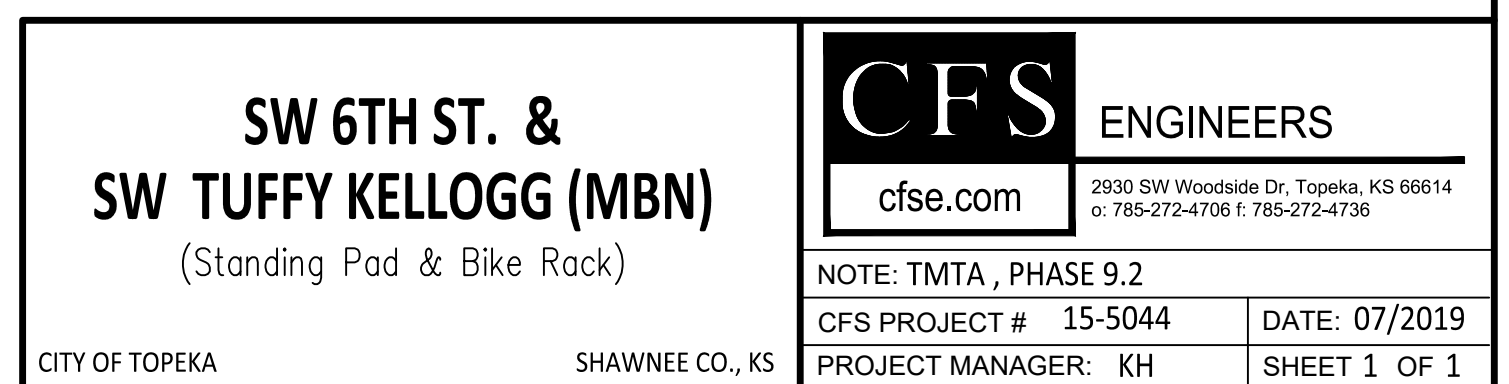
CFS PROJECT # 15-5044 DATE: 07/2019

PROJECT MANAGER: KH SHEET 1 OF 1



CP 92312 SET 1/2" REBAR W/CAP (CFS CONTROL)
N:585315.8630 E:11369318.9580 EL:916.61

1) TO NORTH B/C 6TH AVE	2.7' N
2) TO SOUTH EDGE E-W WALK	3.0' S
3) TO C MH	12.7' E





CP 92362 SET "X" CUT TOP OF INLET
N: 586884.335 E: 11370425.524 EL: 894.69

1) TO NW COR CURB INLET (2ND N. OF CIR. DR.)	0.45' NW
2) TO NE COR CURB INLET "	4.98' ENE
3) TO SE COR CURB INLET "	10.87' SE
4) TO SW COR CURB INLET "	9.66' SSW

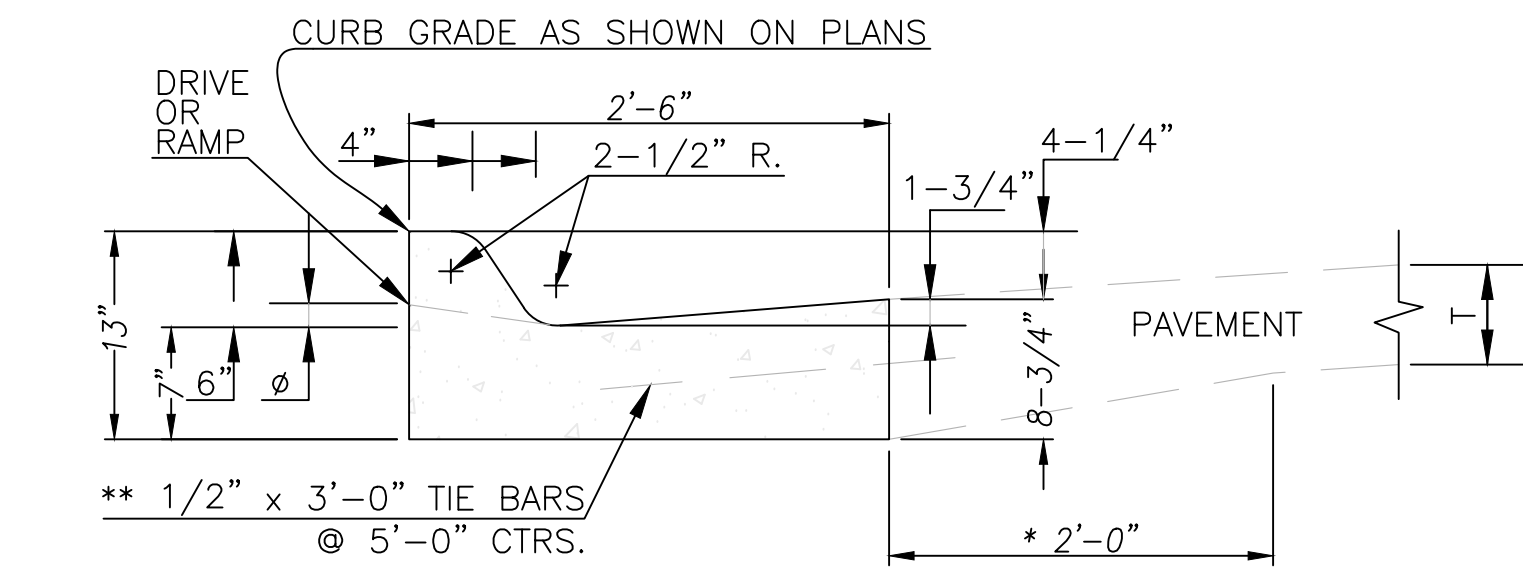
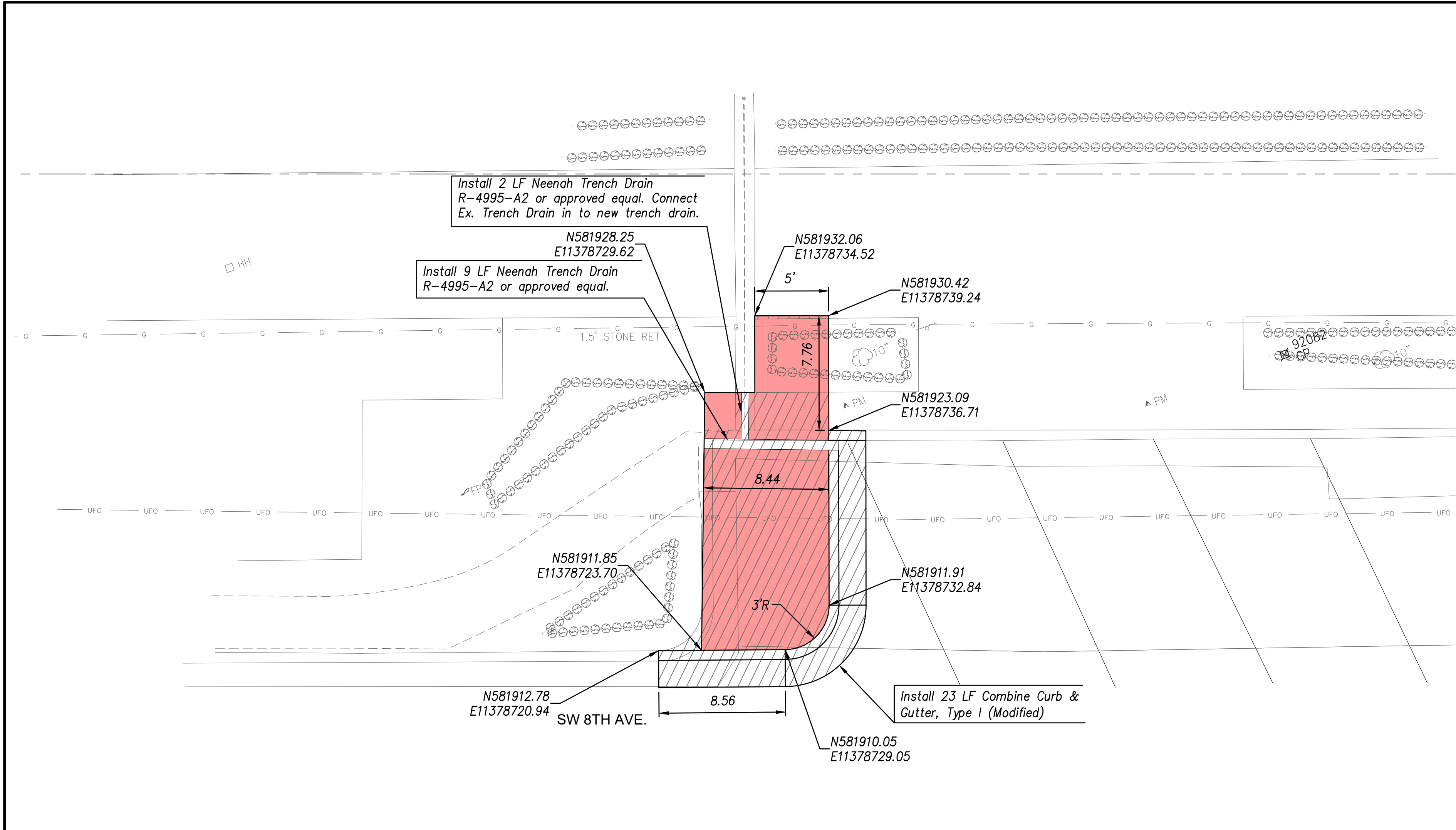


LEGEND

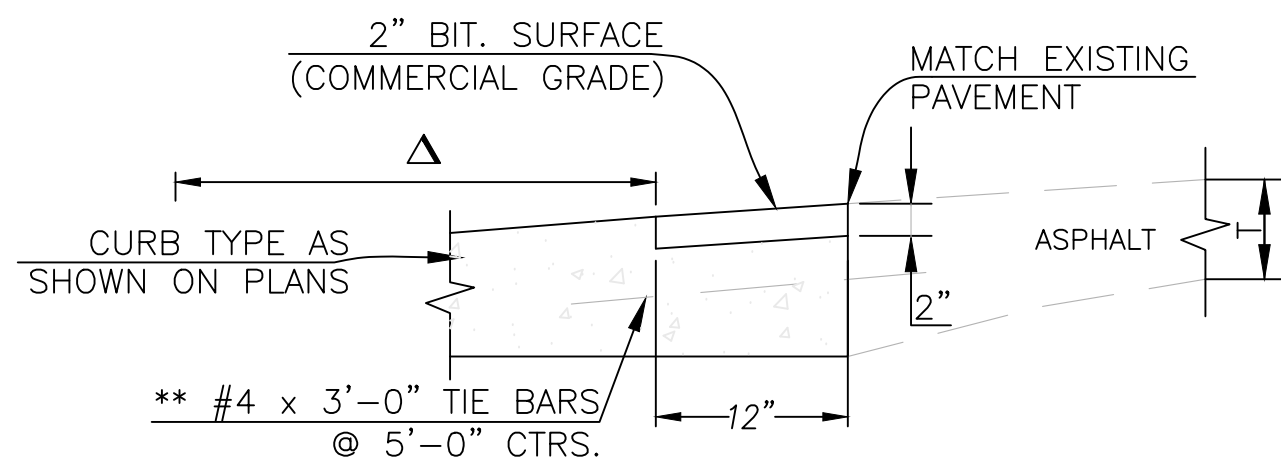
- | | |
|----|-----------------|
| TP | Top of Pavement |
| TS | Top of Sidewalk |
| TC | Top of Curb |
| TW | Top of Wall |

NOTE: TMTA , PHASE 9.2	
CFS PROJECT # 15-5044	DATE: 07/2019
PROJECT MANAGER: KH	SHEET 1 OF 1

SHAWNEE CO., KS



COMBINED CURB & GUTTER-TYPE I



CC&G (MODIFIED)

NOTE:
CURB AND GUTTER ABUTTING EXISTING ASPHALT

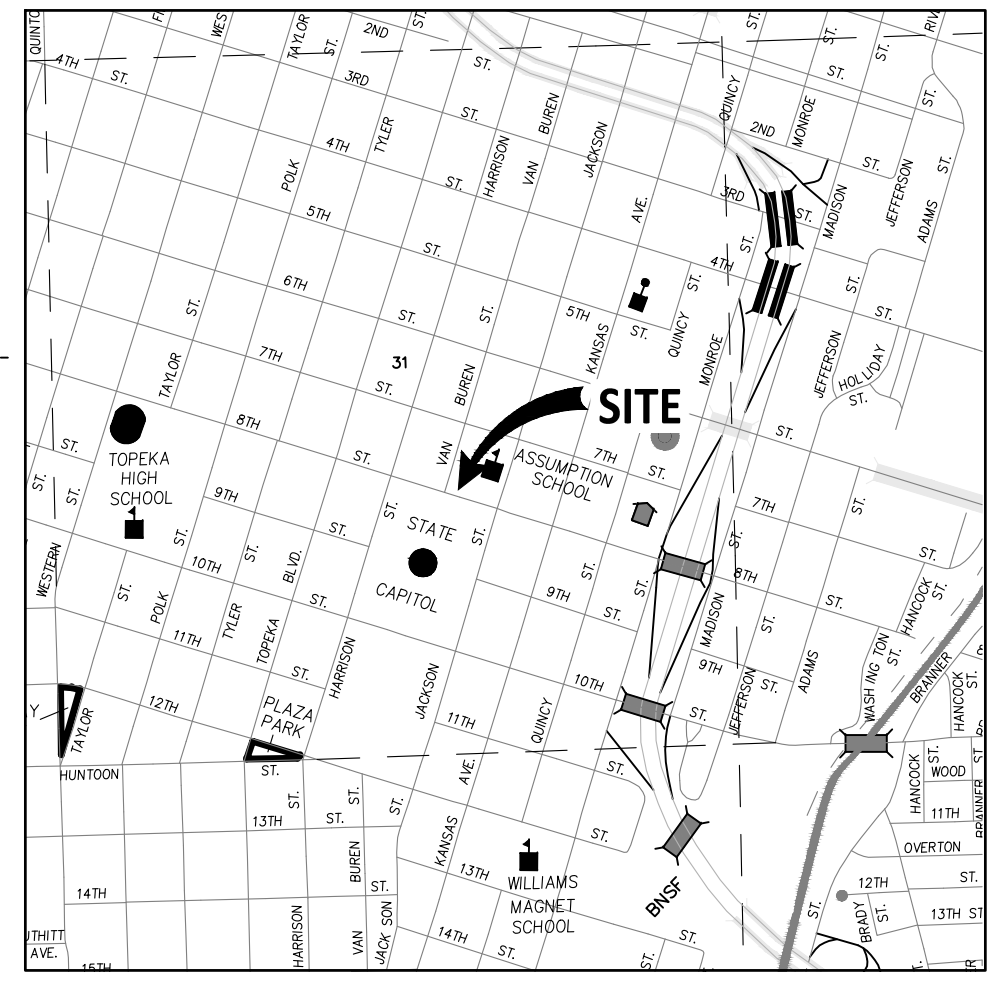
Δ DIMENSION IS FROM BACK OF CURB TO TOE, SEE APPROPRIATE DETAIL FOR CURB TYPE AS SHOWN ON PLANS

NOTES:

* THE CONTRACTOR HAS THE OPTION OF MAINTAINING OR TRANSITIONING AS SHOWN AT NO ADDITIONAL COST.

**THE TIE BARS MAY BE ELIMINATED WITH ASPHALTIC CONCRETE PAVEMENT CONSTRUCTION.

Ø 1-1/2" FOR DRIVE ENTRANCES AND 3/4" FOR SIDEWALK RAMP



VICINITY MAP
NO SCALE

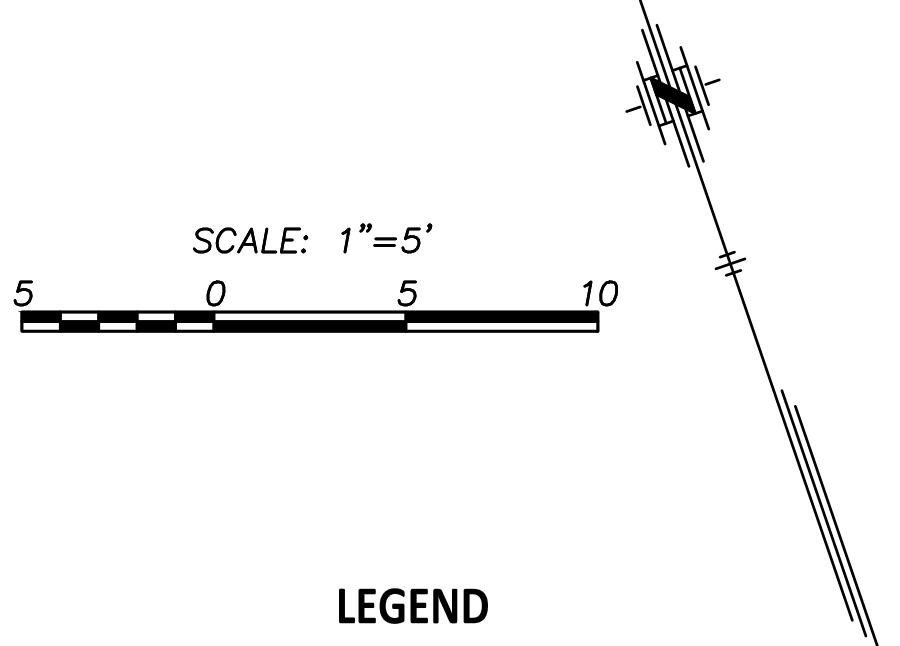
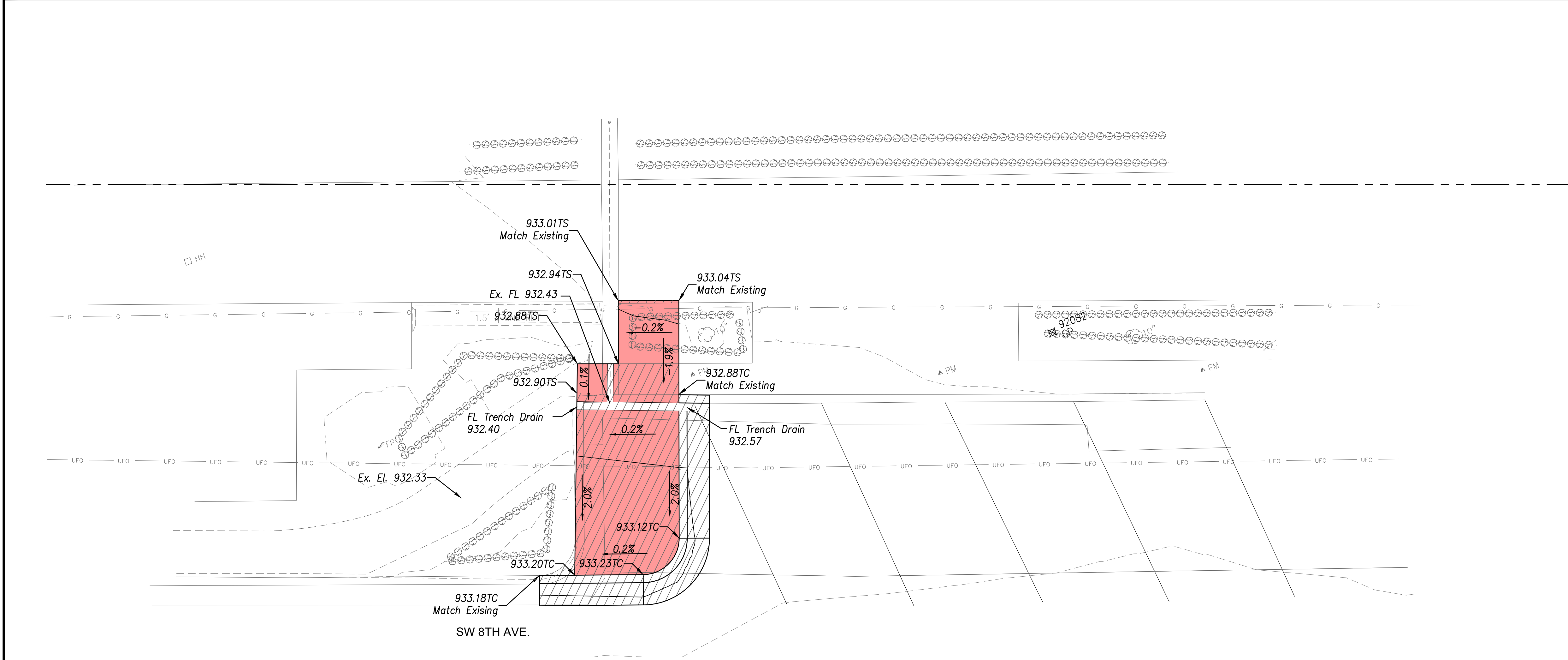
155044 CONTROL TMTA PH 8.5
NAD 83 KRCS ZONE 11
NAVD 88

CP 92081 SET 1/2" REBAR W/CAP (CFS CONTROL)
N:581972.4150 E:11378660.0550 EL:931.44

- 1) TO EAST EDGE B/C VAN BUREN 2.2' W
- 2) TO NORTH EDGE E-W WALK 4.1' S
- 3) TO NORTH EDGE E-W WALK @ B/C 4.6' SSW

CP 92082 SET 1/2" REBAR W/CAP (CFS CONTROL)
N:581917.8320 E:11378767.4990 EL:933.11

- 1) TO NORTH B/C 8TH AVE 5.0' S
- 2) TO PARKING METER 9.7' SSW
- 3) TO 10" TREE 6.8' ES



LEGEND

- Construct Comb. Sidewalk & Retaining Wall
- Construct 5" Non-Reinforced Pad w/ 4" AB-3
- Removal
- Construct 4" Conc. Sidewalk w/ 4" AB-3

TP Top of Pavement
TS Top of Sidewalk
TC Top of Curb
TW Top of Wall

Note:
1. All grading side slopes shall be a 6:1 unless noted on plan.

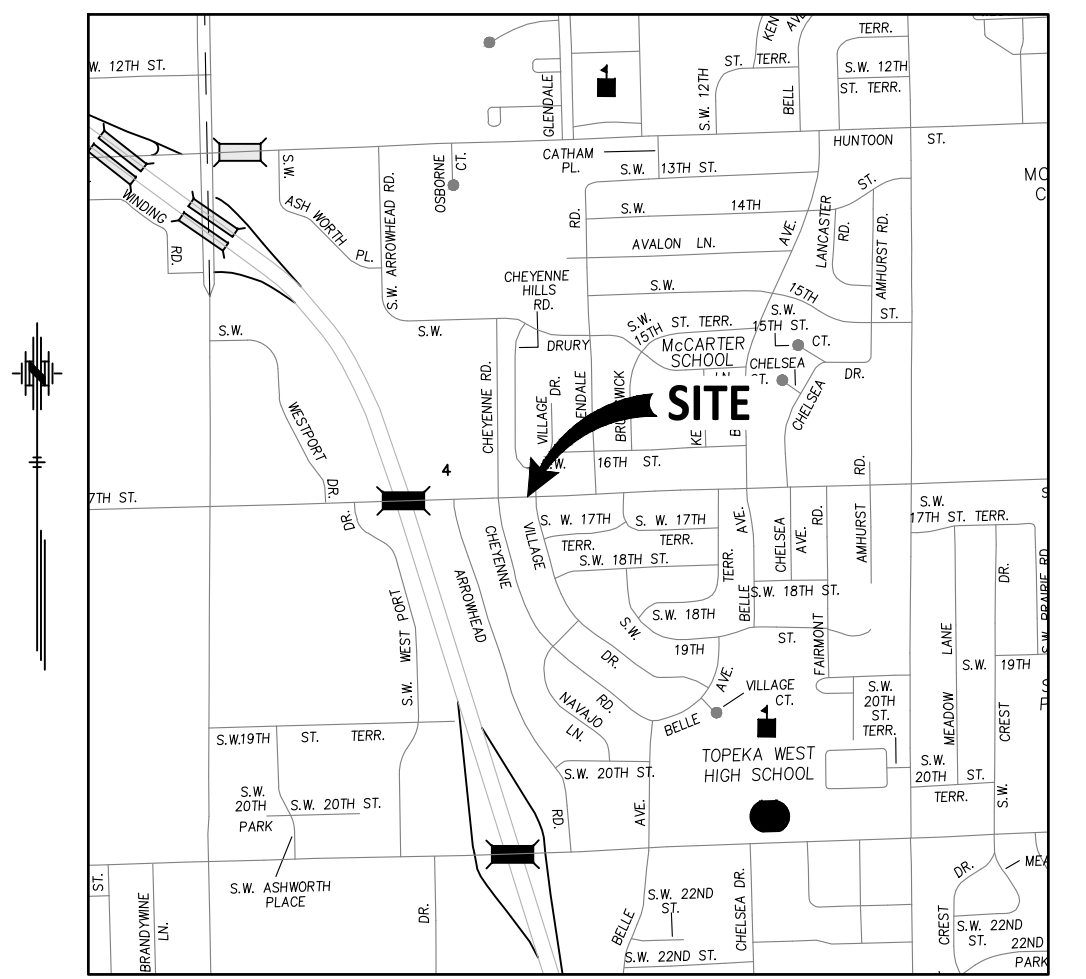
SW 8TH. &
SW VAN BUREN ST.
(Standing Pad)

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NOTE: TMTA, PHASE 9.2
CFS PROJECT # 15-5044 DATE: 04/2019
PROJECT MANAGER: KH SHEET 1 OF 1

CITY OF TOPEKA

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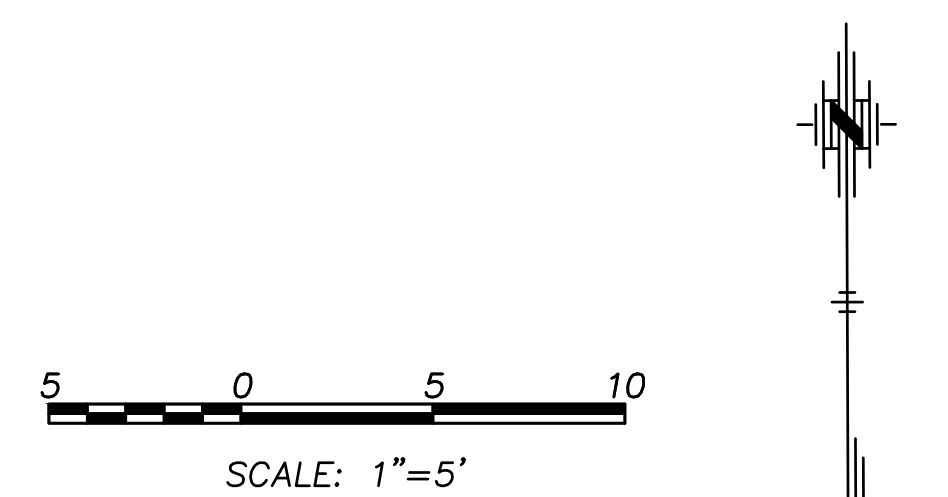
155044 CONTROL TMTA PH 8.5
NAD 83 KRCS ZONE 11
NAVD 88

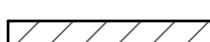
CP 92271 SET 1/2" REBAR W/CAP (CFS CONTROL)
N:577271.685 E:11356971.156 EL:988.37

1) TO NORTH B/C 17TH ST 9.0' S
2) TO WEST SIDE N-S WALK 7.3' E
3) TO SOUTH SIDE NE-SW WALK 4.7' NNW

CP 92272 SET 1/2" REBAR W/CAP (CFS CONTROL)
N:577264.813 E:11356878.286 EL:989.23

1) TO NORTH B/C 17TH ST 2.2' S
2) TO SOUTH EDGE E-W WALK 7.7' N
3) TO PP 43.7 ENE



 - Large Tree Removal
 - Construct Comb. Sidewalk & Retaining Wall
 - Construct 5" Non-Reinforced Pad w/ 4" AB-3
 - Conc. Sidewalk Removal
 - Construct 4" Conc. Sidewalk w/ 4" AB-3

TP	Top of Pavement
TS	Top of Sidewalk
TC	Top of Curb
TW	Top of Wall

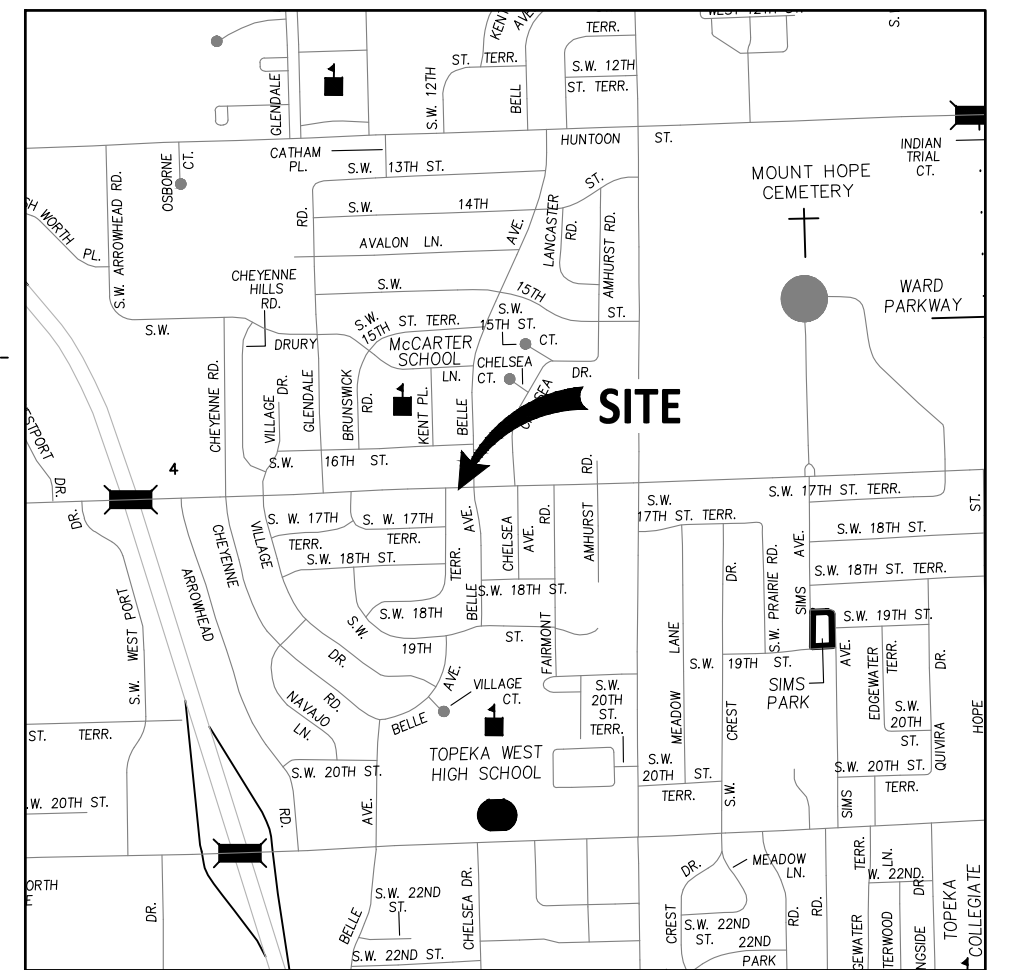
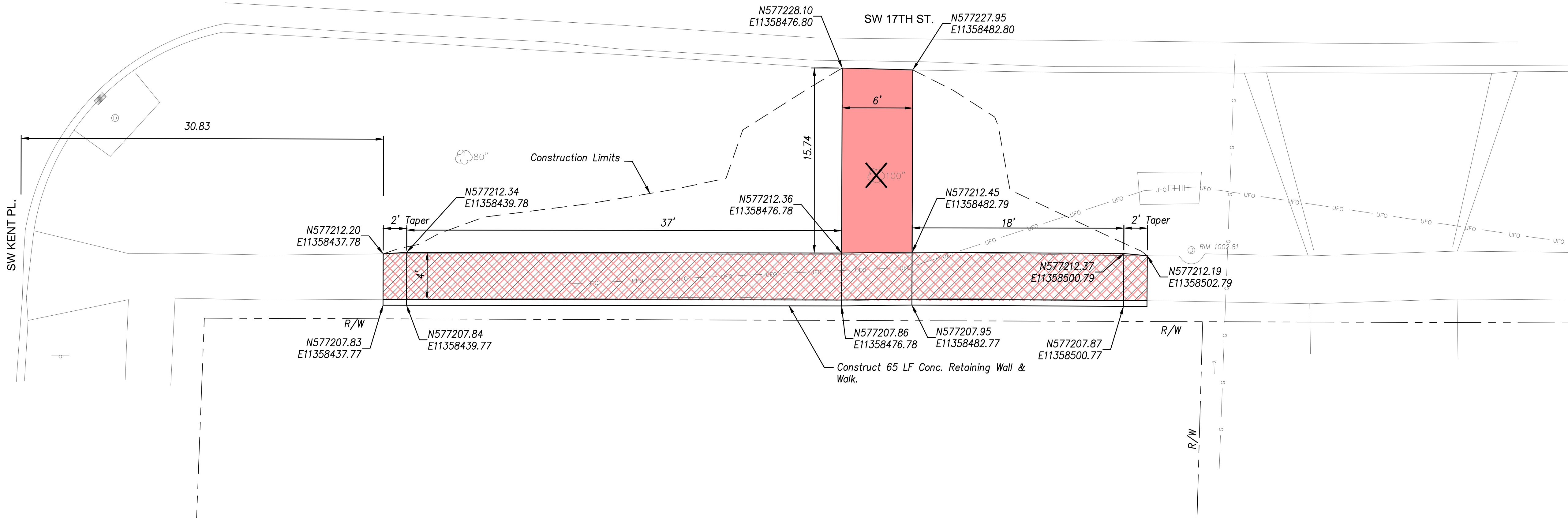
Note:

1. All grading side slopes shall be a 6:1 unless noted on plan.

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NOTE: TMTA, PHASE 9.2	
CFS PROJECT # 15-5044	DATE: 07/2019
PROJECT MANAGER: KH	SHEET 1 OF 1

SHAWNEE CO., KS

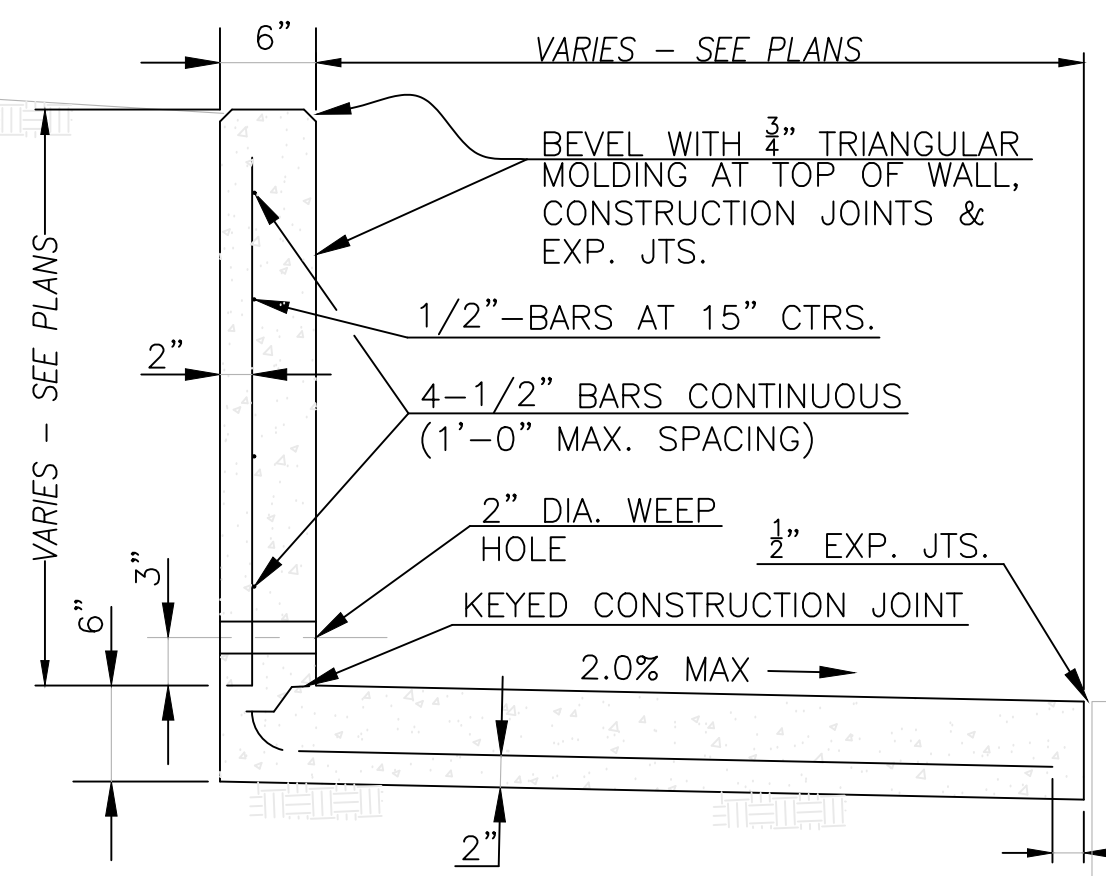
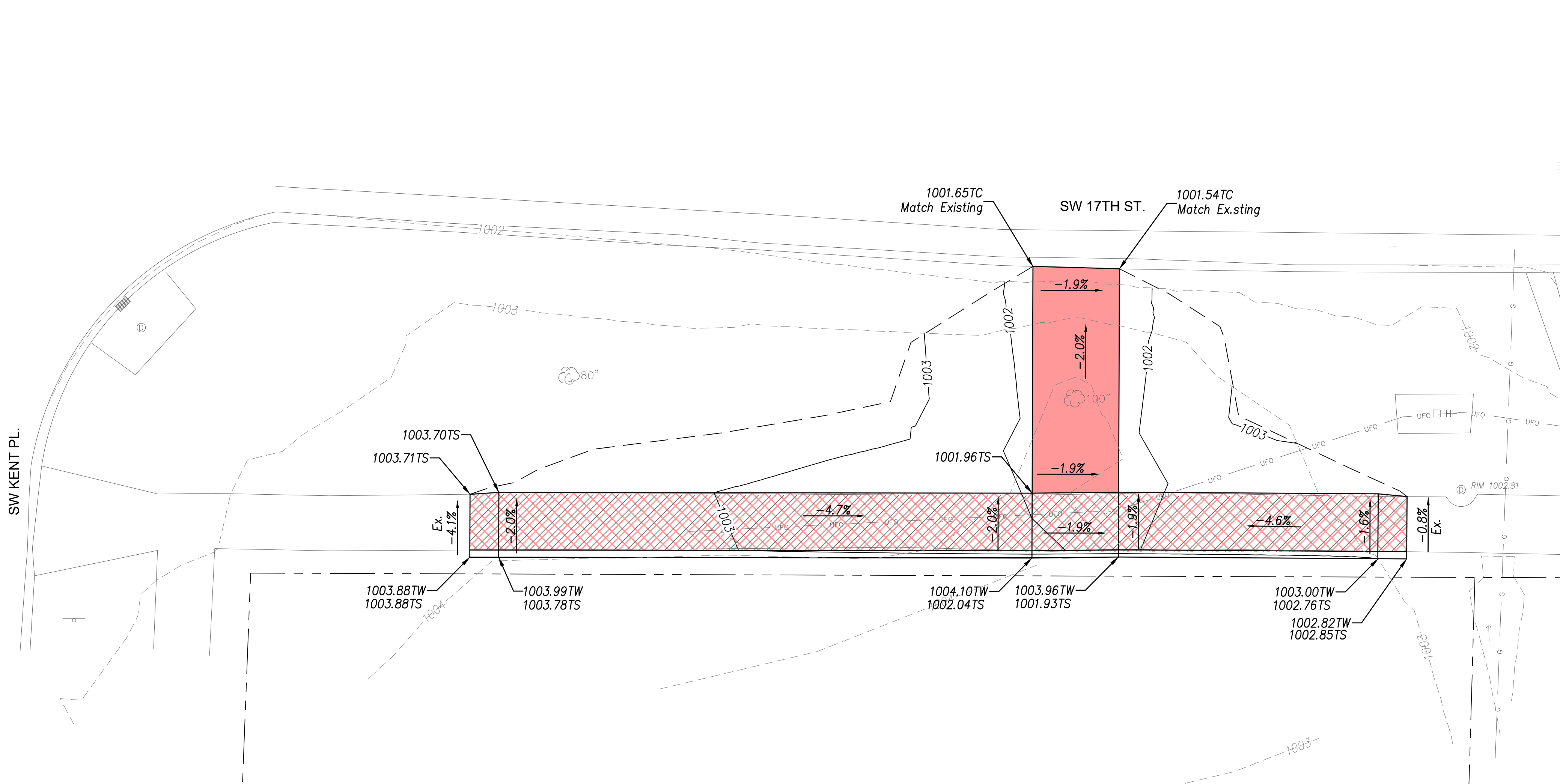


VICINITY MAP
NO SCALE

155044 CONTROL TMTA PH 8.5
NAD 83 KRCS ZONE 11
NAVD 88

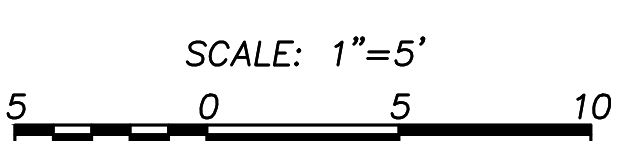
CP 92191 SET 1/2" REBAR W/CAP (CFS CONTROL)
N: 577217.9840 E: 11358645.8060 EL: 999.87
1) TO B/C SE CURB RETURN 1.8' NW
2) TO WEST SIDE N-S WALK 2.3' E
3) TO NORTH SIDE E-W WALK 4.9' S

CP 92192 SET 1/2" REBAR W/CAP (CFS CONTROL)
N: 577224.6780 E: 11358567.8560 EL: 1000.76
1) TO SOUTH B/C 17TH ST 3.2' N
2) TO NW COR INLET @ B/C 4.5' E
3) TO SW COR INLET 4.5' SE



RETAINING WALL & WALK DETAILS

NOTE:
▶ THIS TYPE OF WALL MAY BE USED TO A MAXIMUM HEIGHT OF 3'-0".
▶ WEEP HOLES AT A MAXIMUM OF 15' CENTER TO CENTER WITH COARSE AGGREGATE PLACED AT EACH WEEP HOLE 18" IN ALL DIRECTIONS ABOVE FLOW LINE.
▶ CONCRETE SHALL BE CLASS "A" THROUGHOUT WITH GRADE 40 REINFORCING.
▶ PLACE 1/2" HARDWARE SCREEN AT WEEP HOLES TO RETAIN AGGREGATE.



LEGEND

- Large Tree Removal
- Construct Comb. Sidewalk & Retaining Wall
- Construct 5' Non-Reinforced Pad w/ 4" AB-3
- Conc. Sidewalk Removal
- Construct 4" Conc. Sidewalk w/ 4" AB-3

TP Top of Pavement
TS Top of Sidewalk
TC Top of Curb
TW Top of Wall

Note:
1. All grading side slopes shall be a 6:1 unless noted on plan.

SW 17TH. ST &
SW BELLE AVE. (SE)
(Standing Pad)

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NOTE: TMTA, PHASE 9.2
CFS PROJECT # 15-5044 DATE: 04/2019
PROJECT MANAGER: KH SHEET 1 OF 1

CITY OF TOPEKA

SHAWNEE CO., KS