



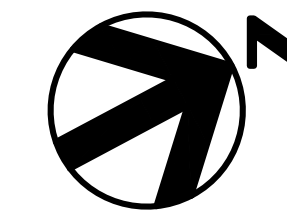


CADD FILE: \\CAS-DATASERVER\WATER\ACTIVE PROJECTS\COA W & WW LARGE & SMALL SCALE FACILITIES\HULLRICH\SPS SWITCHGEAR PROJECT\3.0 WORK\PRODUCTS\3.6 CAD\1126TREE04.PLOTTED: 1/15/2021 1:34:12 PM BY: JANE FU CFB FILE: CAS.CTB

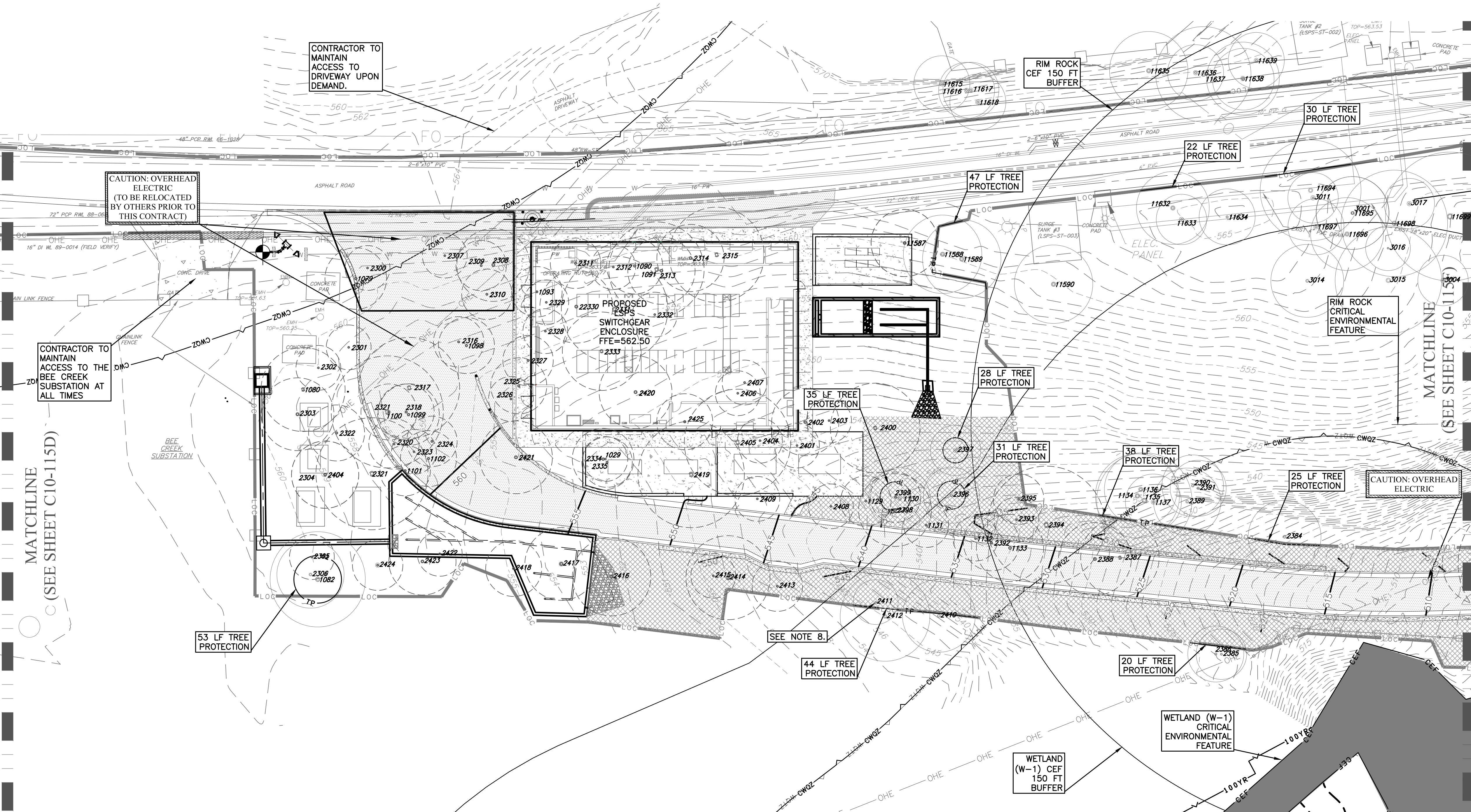
NOTES:

1. A TREE MITIGATION PLAN COMPLIANT WITH CHAPTER 25-8, SUBCHAPTER B, ARTICLE 1, DIVISION 2 OF THE COA LDC AND SECTION 3 OF THE COA ECM WILL BE PROVIDED BY THE PERMIT APPLICANT.
2. TREE CARE PLAN SHALL BE PREPARED BY A CERTIFIED ARBORIST. REFER TO SPECIFICATION SECTION 01595.
3. REVEGETATE ALL DISTURBED AREAS WITH NATIVE SEED MIX PER COA STANDARD SPECIFICATION 604S. USE DRY AREA SEED MIX INCLUDING WILDFLOWER SEED LISTED IN TABLE 4 OF 604S.
4. A PRECONSTRUCTION MEETING WITH THE ENVIRONMENTAL INSPECTOR IS REQUIRED PRIOR TO ANY SITE DISTURBANCE.
5. CONTRACTOR TO INCLUDE TEMPORARY IRRIGATION FOR FINAL STABILIZATION.
6. TREE PROTECTION FENCING TO BE INSTALLED AROUND THE FULL CRZ WHERE POSSIBLE. WHERE NOT POSSIBLE, TREE PROTECTION FENCING TO BE INSTALLED AROUND THE 1/2 CRZ AND ADD 8" OF HARDWOOD MULCH FROM THE 1/2 CRZ TO THE FULL CRZ.
7. CONTRACTOR TO PLACE FENCE FOOTINGS OUTSIDE OF THE 1/4 CRZ OF ALL TREES. IF LOCATED WITHIN THE 1/2 CRZ, ENSURE CUT DEPTH IS ONLY 4" MAXIMUM.
8. 2x4x6 OR GREATER SIZE LUMBER SHALL BE STRAPPED VERTICALLY TO THE TREE AND 8" OF HARDWOOD MULCH SHALL BE APPLIED WITHIN THE FULL CRZ, WHERE POSSIBLE. SEE TREE MITIGATION TABLES AND TREE PROTECTION SHEETS FOR TREE PROTECTION AND REMOVAL.
9. PRIOR TO FINAL STABILIZATION OF

DISTURBED AREAS CONTRACTOR SHALL DECOMPACT SOIL USING FULL AFM WITHIN THE CRITICAL ROOT ZONES OF TREES TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION, AND OUTSIDE OF WETLANDS.



LEGEND	
	LIMITS OF CONSTRUCTION
	TREE PROTECTION
	EXISTING GAS LINE
	EXISTING WATER LINE
	EXISTING WASTEWATER LINE
	EXISTING STORM LINE
	EXISTING PROPERTY LINE
	EXISTING CONTOUR LINES
	EASEMENT LINES
	EXISTING TREE TO BE REMOVED
	EXISTING TREE TO REMAIN
	HERITAGE TREE TO REMAIN

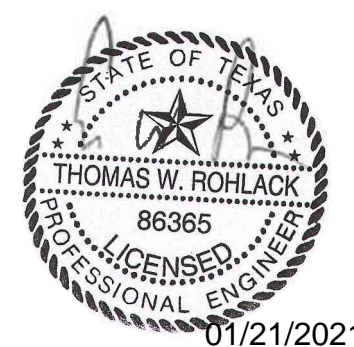


SITE PLAN APPROVAL SHEET _____ OF _____	FILE NUMBER _____	APPLICATION DATE: _____
APPROVED BY COMMISSION ON _____	UNDER SECTION _____	OF _____
CHAPTER _____	OF THE CITY OF AUSTIN CODE.	
EXPIRATION DATE(25-5-81, LDC) _____	CASE MANAGER _____	
PROJECT EXPIRATION DATE (ORD. #970905-A) _____	DWPZ _____	DOZ _____
Director, Watershed Protection and Development Review		
RELEASED FOR GENERAL COMPLIANCE: _____ ZONING _____		
Rev. 1 _____	Correction 1 _____	
Rev. 2 _____	Correction 2 _____	
Rev. 3 _____	Correction 3 _____	
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PROJECT MANAGER		
DESIGNED BY		
DRAWN BY		
CHECKED BY		
DATE		
ISSUE	DATE	DESCRIPTION
0	01/21/2021	CONFORMED CONTRACT DRAWINGS

PROJECT MANAGER	
DESIGNED BY	
DRAWN BY	
CHECKED BY	
DATE	
PROJECT NUMBER	1126



ULLRICH WTP  
LOW SERVICE PUMP STATION  
ELECTRICAL FEED RENEWAL



FILENAME 1126TREE04  
SCALE 1" = 20'

SHEET 31 of 350  
C10-115E















NOTES:

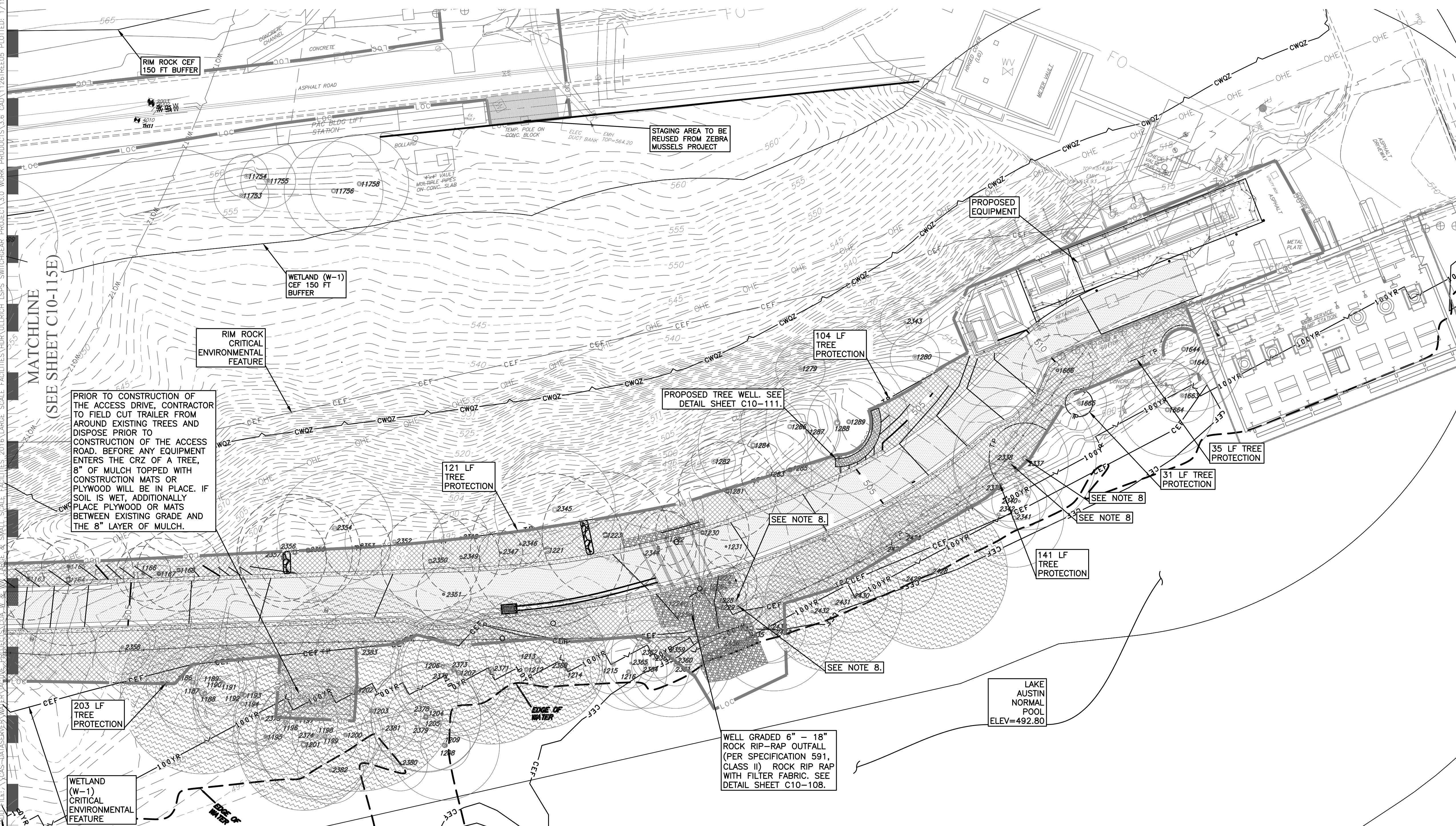
- |    |   |    |   |    |   |
|----|---|----|---|----|---|
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| 2. | TREE CARE PLAN SHALL BE PREPARED BY A CERTIFIED ARBORIST. REFER TO SPECIFICATION SECTION 01595.   | 5. | CONTRACTOR TO INCLUDE TEMPORARY IRRIGATION FOR FINAL STABILIZATION.   | 8. | 2x4x6 OR GREATER SIZE LUMBER SHALL BE STRAPPED VERTICALLY TO THE TREE AND 8" OF HARDWOOD MULCH SHALL BE APPLIED WITHIN THE FULL CRZ, WHERE POSSIBLE. SEE TREE MITIGATION TABLES AND TREE PROTECTION SHEETS FOR TREE PROTECTION AND REMOVAL. |
| 3. | REVEGETATE ALL DISTURBED AREAS WITH NATIVE SEED MIX PER COA STANDARD SPECIFICATION 604S. USE DRY AREA SEED MIX INCLUDING WILDFLOWER SEED LISTED IN TABLE 4 OF 604S.           | 6. | TREE PROTECTION FENCING TO BE INSTALLED AROUND THE FULL CRZ WHERE POSSIBLE. WHERE NOT POSSIBLE, TREE PROTECTION FENCING TO BE INSTALLED AROUND THE 1/2 CRZ AND ADD 8" OF HARDWOOD MULCH FROM THE 1/2 CRZ TO THE FULL CRZ. | 9. | PRIOR TO FINAL STABILIZATION OF   |

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### LEGEND

- |   |     |                             |
|---|-----|-----------------------------|
|  | LOC | LIMITS OF CONSTRUCTION      |
|  | TP  | TREE PROTECTION             |
|  | GAS | EXISTING GAS LINE           |
|  | W   | EXISTING WATER LINE         |
|  | WW  | EXISTING WASTEWATER LINE    |
|  | ST  | EXISTING STORM LINE         |
|  |     | EXISTING PROPERTY LINE      |
|  |     | EXISTING CONTOUR LINES      |
|  |     | EASEMENT LINES              |
|  |     | EXISTING TREE TO BE REMOVED |
|  |     | EXISTING TREE TO REMAIN     |
|  |     | HERITAGE TREE TO REMAIN     |



SITE PLAN APPROVAL		SHEET		OF	
FILE NUMBER		APPLICATION DATE			
APPROVED BY COMMISSION ON		UNDER SECTION		OF	
CHAPTER		OF THE CITY OF AUSTIN CODE			
EXPIRATION DATE (25-5-51) (U.C.)		DATE		PAGE	
PROJECT EXPIRATION DATE (ORD. #793050-A)		DWP2		DD2	

Director, Watershed Protection and Development Review

RELEASED FOR GENERAL COMPLIANCE: \_\_\_\_\_ ZONING: \_\_\_\_\_

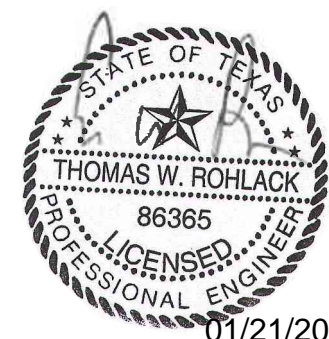
Rev. 1	Correction 1
Rev. 2	Correction 2
Rev. 3	Correction 3

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Subsequent Site Plans which do not comply with the Code current at the time of filing, and are required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved

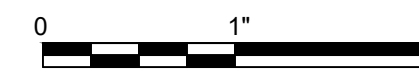


0	01/21/2021	CONFORMED CONTRACT DRAWINGS
<b>ISSUE</b>	<b>DATE</b>	<b>DESCRIPTION</b>



ULLRICH WTP  
LOW SERVICE PUMP STATION  
ELECTRICAL FEED RENEWAL

**TREE PROTECTION PLAN (5 OF 5)**

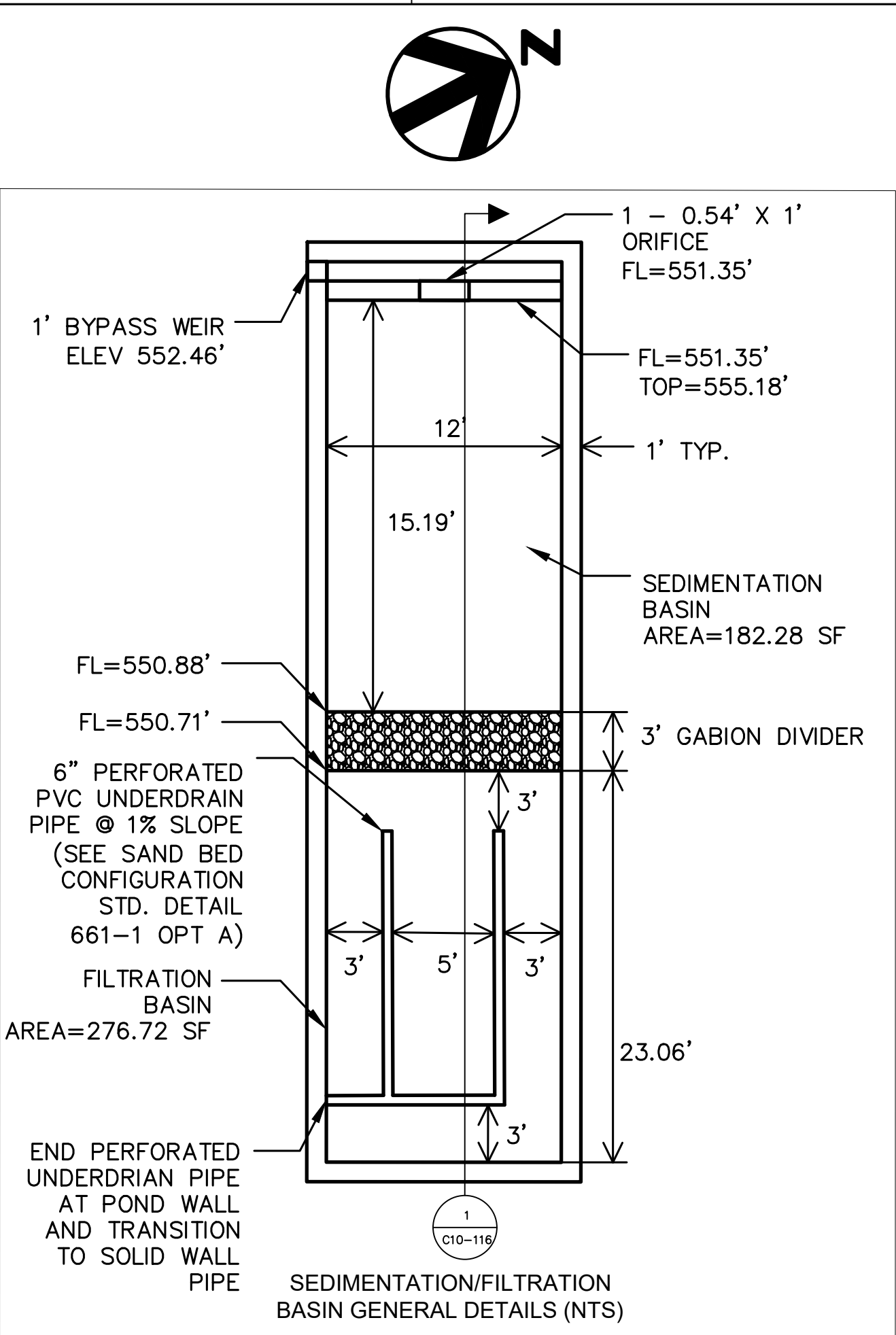
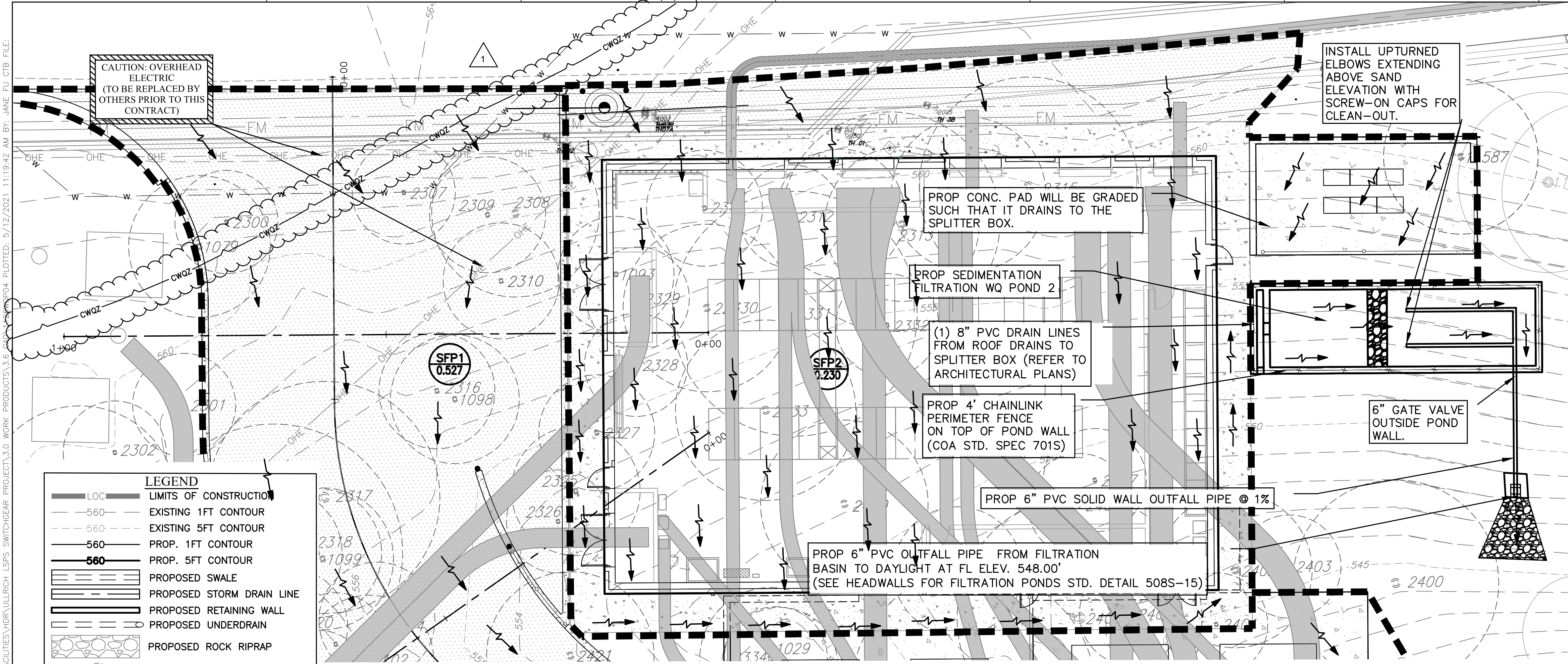


<b>FILENAME</b>	1126TREE05
<b>SCALE</b>	1" = 20'

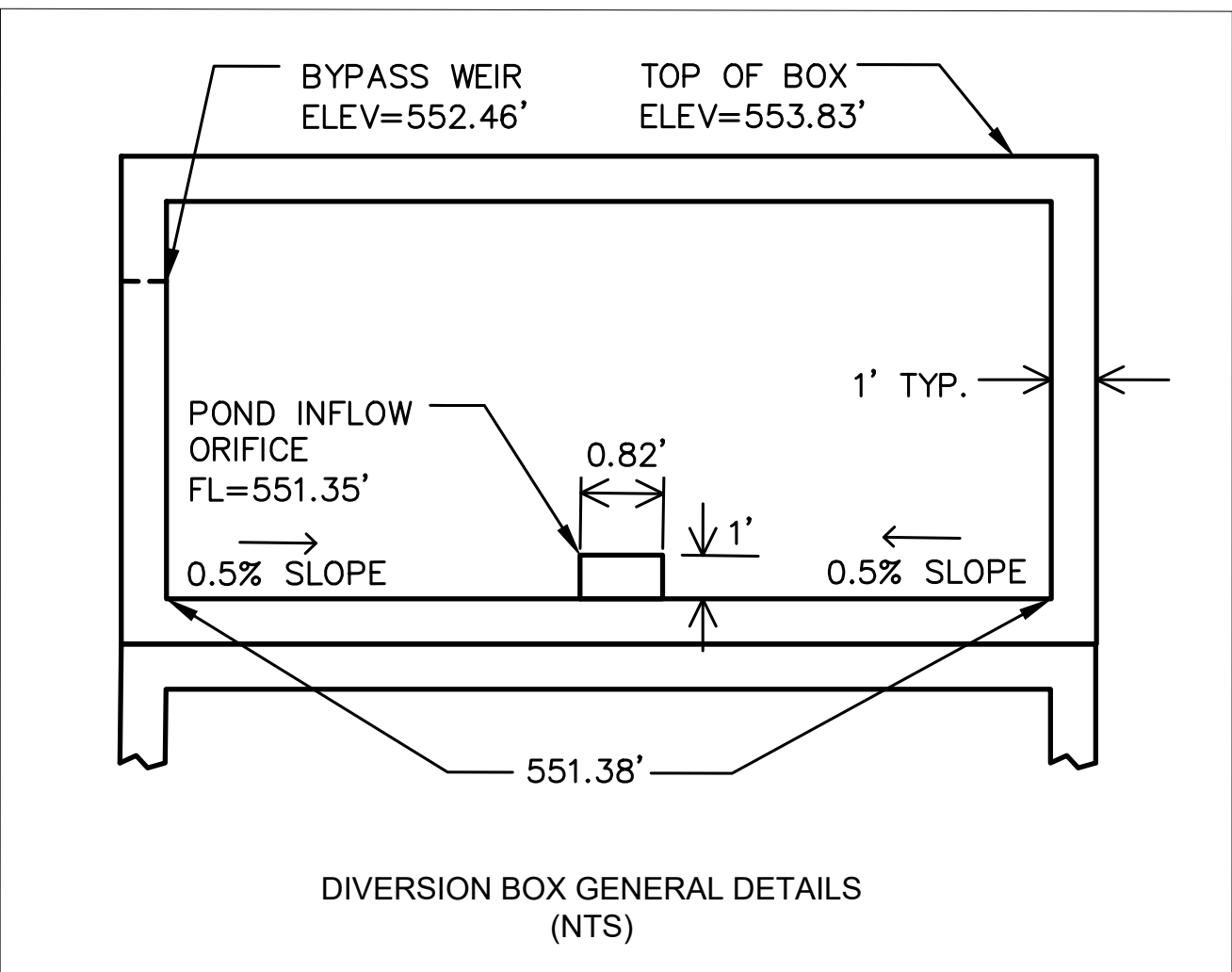
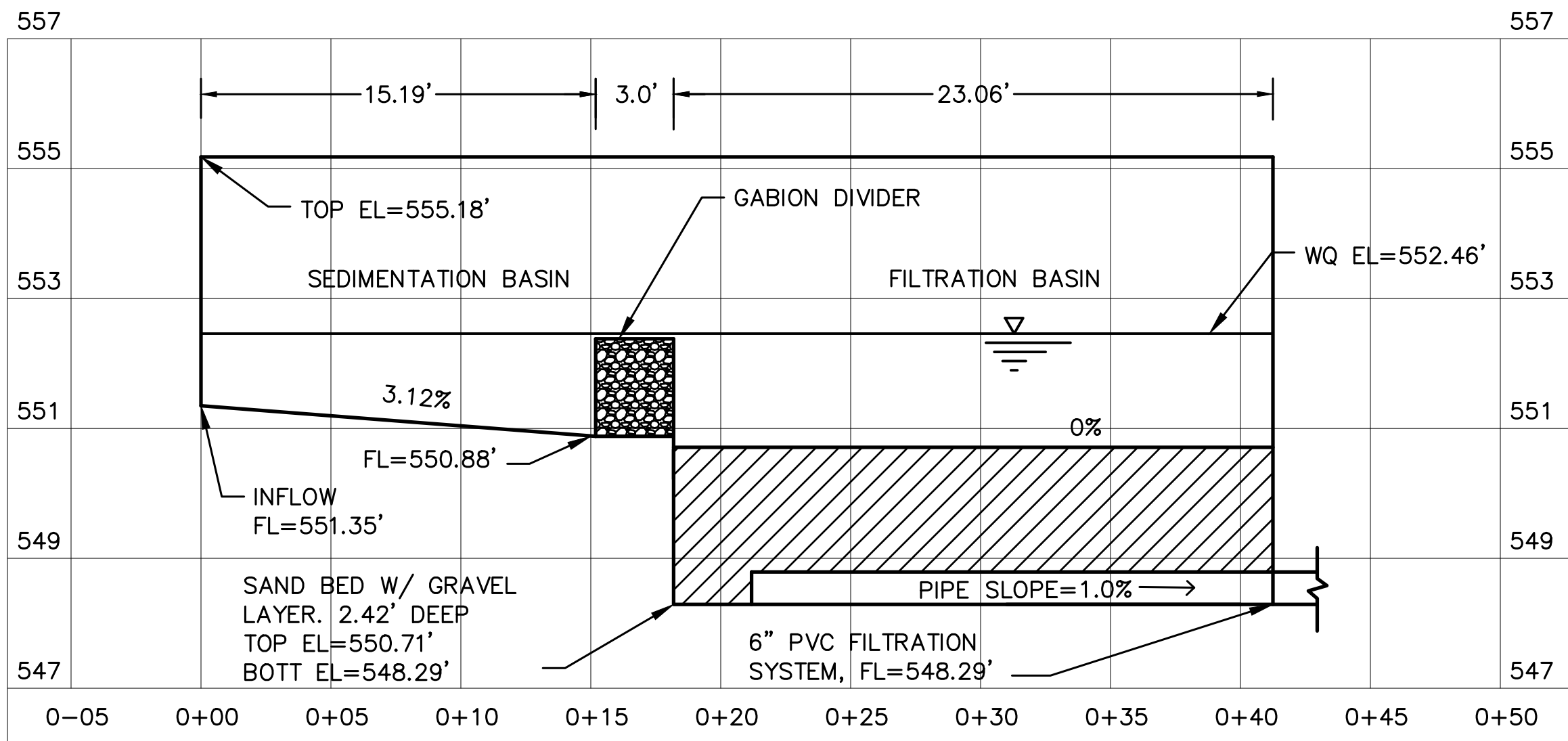
SHEET 32 of 350  
**C10-115F**



CADD FILE: \\CAS-DATASEVER\WATER\ACTIVE PROJECTS\COA W & NW LARGE & SMALL SCALE FACILITIES\HRR\ULLRICH LSPS SWITCHGEAR PROJECT\3.0 WORK PRODUCTS\3.6 PLANS\DWG\DWG04.PLOT: 5/12/2021 11:19:42 AM BY: JANE FU CTB FILE: HRR-MSTAN\AN\CTB



Drainage Area Data:			
Drainage Area to Control DA - Maximum 2.0 Ac.)		0.234	Ac.
Drainage Area Percent Impervious Cover		98.32	%
Capture Depth (CD)		1.28	in.
Water Quality Control Calculations:			
		Required	Provided
The Water Quality Control is to be FULL SEDIMENTATION FILTRATION			
25-year Peak Flow Rate to Control (Q25)		2.40	cfs
100-year Peak Flow Rate to Control (Q100)		3.46	cfs
Water Quality Volume (WQC=CD*DA*3630)		1088.88	cf
Maximum Ponding Depth in Sedimentation Pond (H)			4.30 ft
Sedimentation Pond Area			182.28 sf
Sedimentation Pond Volume (minimum 20% of WQV)		217.78	cf
Filtration Pond Area (WQV/4+1.33*H)		277.94	sf
Filtration Pond Volume			668.25 cf
Water Quality Elevation		552.46	ft msl
Elevation of Splitter/Overflow Weir		WQE	ft msl
Height of Gabion Wall		WQE - 0.5 ft	ft msl
Length of Splitter Weir			1.00 ft
Required Head to Pass Q100		max. 1.0	ft
Pond Freeboard Provided to Pass Q100		min. 0.25	ft
48 Hour Drawdown Time Orifice Opening diameter (inches)			6.0 in



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FILE NUMBER	APPLICATION DATE	
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CHAPTER	OF THE CITY OF AUSTIN CODE	
EXPIRATION DATE(25-5-81, LDC)	CASE MANAGER	
PROJECT EXPIRATION DATE (ORD. #970905-A)	DW2	DOZ
Director, Watershed Protection and Development Review		
RELEASED FOR GENERAL COMPLIANCE: ZONING		
Rev. 1	Correction 1	
Rev. 2	Correction 2	
Rev. 3	Correction 3	
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construction (if a building permit is not required), must also be approved		
prior to the Project Expiration Date.		

- NOTE:
- THE CONDENSER CONC. PAD & PAVED AREA WEST OF THE SWITCHGEAR BUILDING ARE GRADED SUCH THAT IT DRAINS TO THE HIGH POINT OF THE SEDIMENTATION POND..
  - OWNER MUST ADHERE TO MAINTENANCE PLAN AND INTEGRATED PEST MANAGEMENT PLAN.
  - SEE STRUCTURAL SHEETS FOR DETAILS AND REINFORCEMENT.



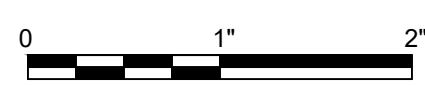
ISSUE	DATE	DESCRIPTION
1	05/12/2021	RFI039
0	01/21/2021	CONFORMED CONTRACT DRAWINGS

PROJECT MANAGER	
DESIGNED BY	TR
DRAWN BY	JC
CHECKED BY	JC
DATE	
PROJECT NUMBER	1126



ULLRICH WTP  
LOW SERVICE PUMP STATION  
ELECTRICAL FEED RENEWAL

WATER QUALITY (1 OF 4)

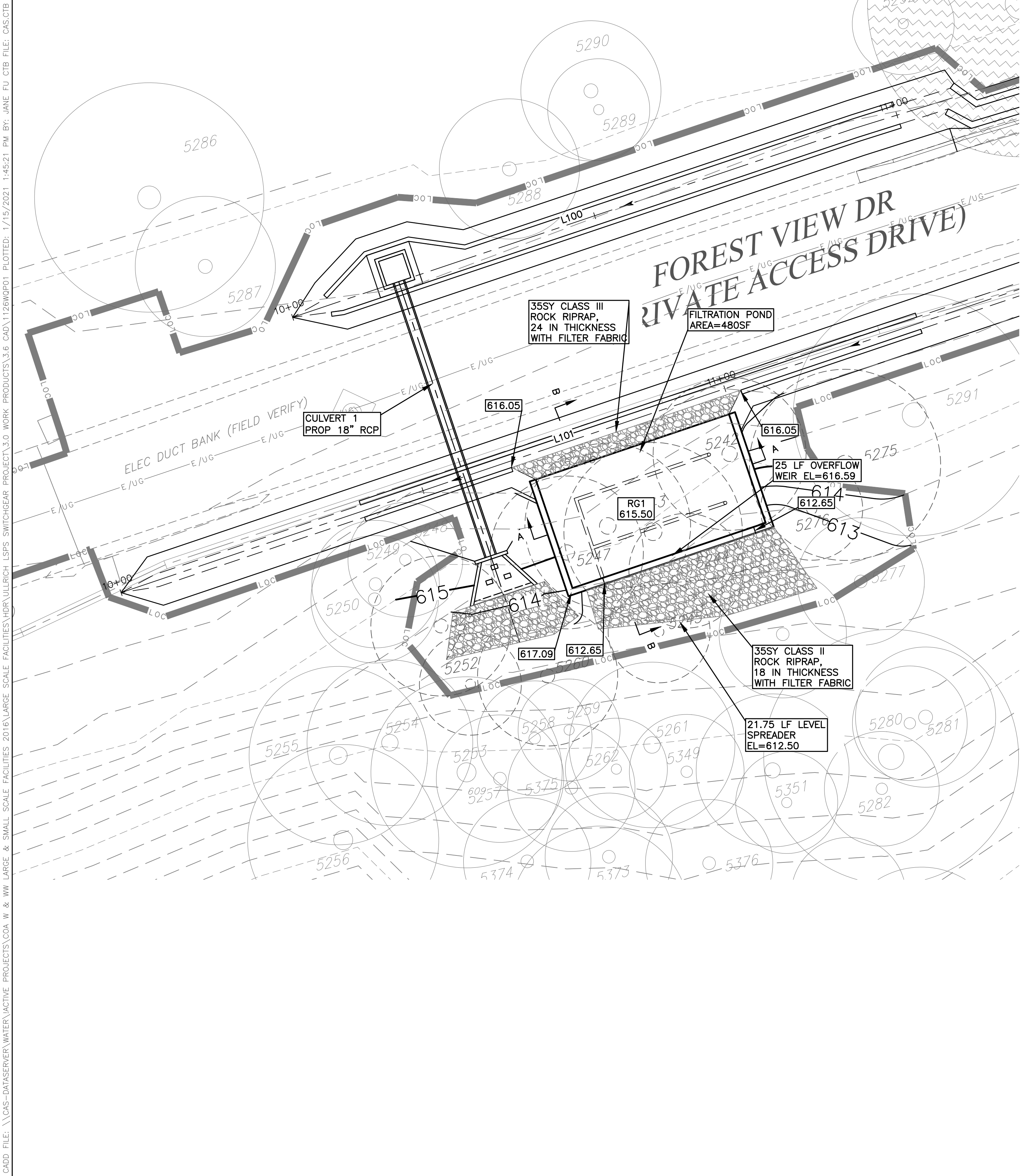


FILENAME 1126WQP04  
SCALE 1" = 10'

SHEET  
C10-116



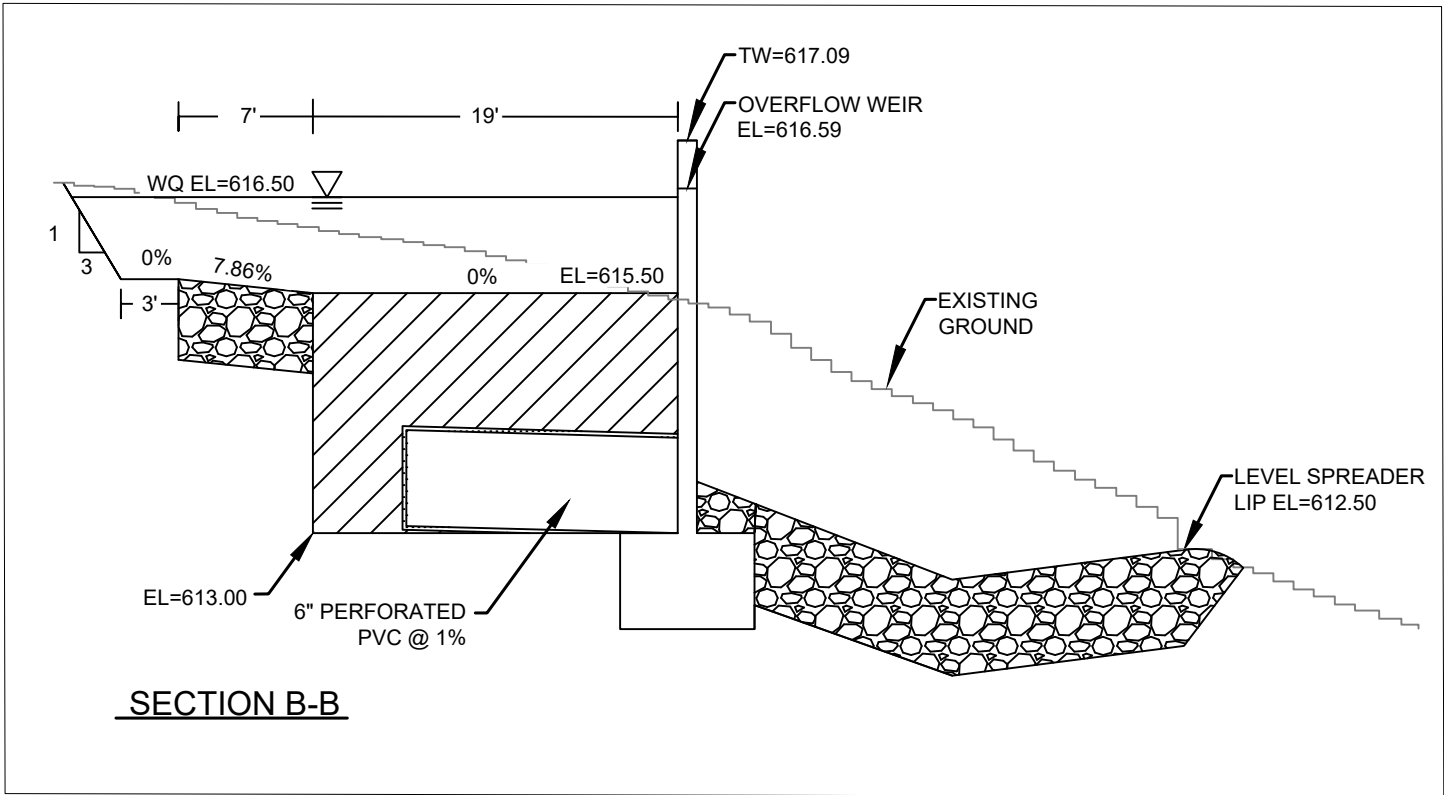
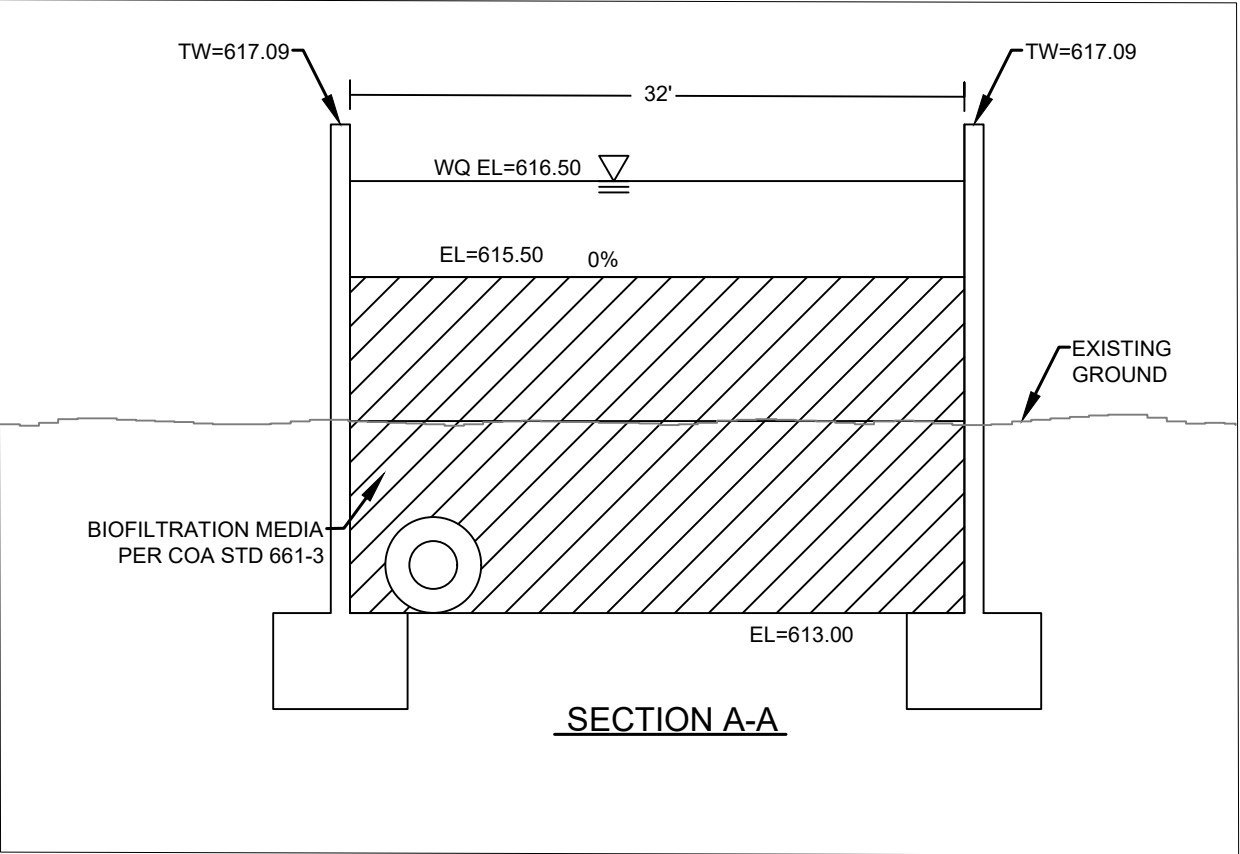
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Subbasin:	RG 1 (South)	
<b>Drainage Area Data:</b>		
Drainage Area to Control DA - Maximum 2.0 Ac.)	0.143	Ac.
Drainage Area Percent Impervious Cover	79.5	%
Capture Depth (CD)	1.09	in.
<b>Water Quality Control Calculations:</b>		
Water Quality Volume	<b>Required</b> 568.04	<b>Provided</b> 652.80
	cf.	cf.
100 Year Peak Flow Rate to Control (Q100)	1.83	cfs.
Filtration Pond Area (Af)	363	sf.
Depth of Ponding (D)	Max. 1.0	1
Depth of Filtration Media (L)	Min. 1.5	1.5
Effective Porosity Water Quality Volume (WQV <sub>ac</sub> =0.24*Af*L)		172.8
Ponded Water Quality Volume (WQV <sub>ponded</sub> =WQV-WQV <sub>ac</sub> )		480
		cf.
	Total WQV	652.8
		cf.
Water Quality Elevation (WQE)	616.50	ft. MSL
Elevation of Splitter/Overflow Weir (Minimum WQE)	616.59	ft. MSL
Length of Splitter Weir		25
Required Head to Pass Q100	Max. 0.5	0.09
Pond Freeboard Provided to Pass Q100	Min. 0.25	0.5
		ft.
<b>For Filtration Rain Gardens:</b>		
Rain Garden Pond Drawdown Time	Min. 48	hr.
	-	hr.
	-	in.
	-	sq. ft.
<b>For Infiltration Rain Gardens:</b>		
Infiltration Rate (in/hr)	0.25	in/hr.
Rain Garden Pond Drawdown Time	48.00	hr.

LEGEND	
	LIMITS OF CONSTRUCTION
	EXISTING 1FT CONTOUR
	EXISTING 5FT CONTOUR
	PROP. 1FT CONTOUR
	PROP. 5FT CONTOUR
	PROPOSED SWALE
	PROPOSED STORM DRAIN LINE
	PROPOSED RETAINING WALL
	PROPOSED UNDERDRAIN
	PROPOSED ROCK RIPRAP
	EXISTING TREE TO BE REMOVED
	EXISTING TREE TO REMAIN
	HERITAGE TREE TO REMAIN

- NOTE:
- CONTRACTOR SHALL MAINTAIN ACCESS ALONG FOREST VIEW DR. DURING ALL PHASES OF CONSTRUCTION. COORDINATE WITH OWNERS REPRESENTATIVE FOR SHORT TERM TRAFFIC INTERRUPTIONS.
  - RAIN GARDEN VEGETATION SHALL CONSIST OF CELEBRATION BERMUDA GRASS.
  - OWNER MUST ADHERE TO MAINTENANCE AND INTEGRATED PEST MANAGEMENT PLAN.
  - REFER TO SITE PLAN SHEET C10-101A FOR COORDINATES FOR POND WALLS.
  - LINER NOT REQUIRED FOR RAIN GARDENS.
  - REFER TO STRUCTURAL DRAWINGS FOR WALL DETAILS.

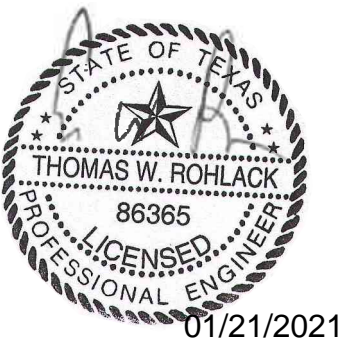


SITE PLAN APPROVAL	SHEET	OF
FILE NUMBER	APPLICATION DATE	
APPROVED BY COMMISSION ON	UNDER SECTION	OF
CHAPTER	OF THE CITY OF AUSTIN CODE	
EXPIRATION DATE(25-5-81, LDC)	CASE MANAGER	
PROJECT EXPIRATION DATE (ORD. #970905-A)	DMP#	DOZ
Director, Watershed Protection and Development Review		
RELEASED FOR GENERAL COMPLIANCE: ZONING		
Rev. 1	Correction 1	
Rev. 2	Correction 2	
Rev. 3	Correction 3	
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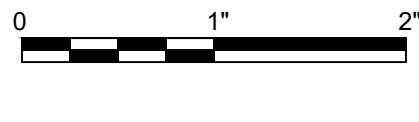


PROJECT MANAGER		
DESIGNED BY		
DRAWN BY		
0	01/21/2021	CONFORMED CONTRACT DRAWINGS
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	
DESIGNED BY	
DRAWN BY	
CHECKED BY	
DATE	
PROJECT NUMBER	1126



ULLRICH WTP  
LOW SERVICE PUMP STATION  
ELECTRICAL FEED RENEWAL



FILENAME 1126WP01  
SCALE 1" = 10'

SHEET 34 of 350  
C10-117



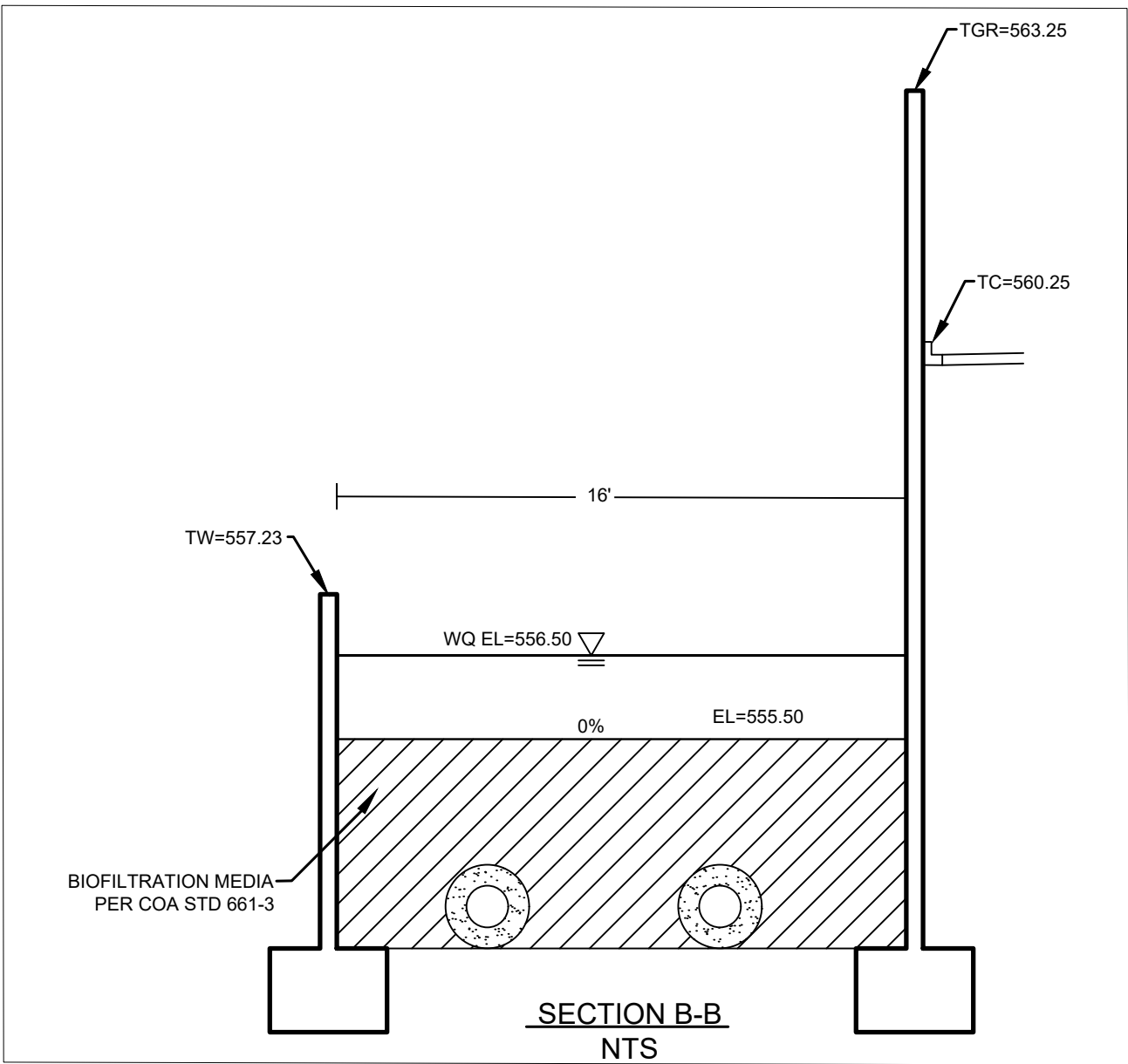
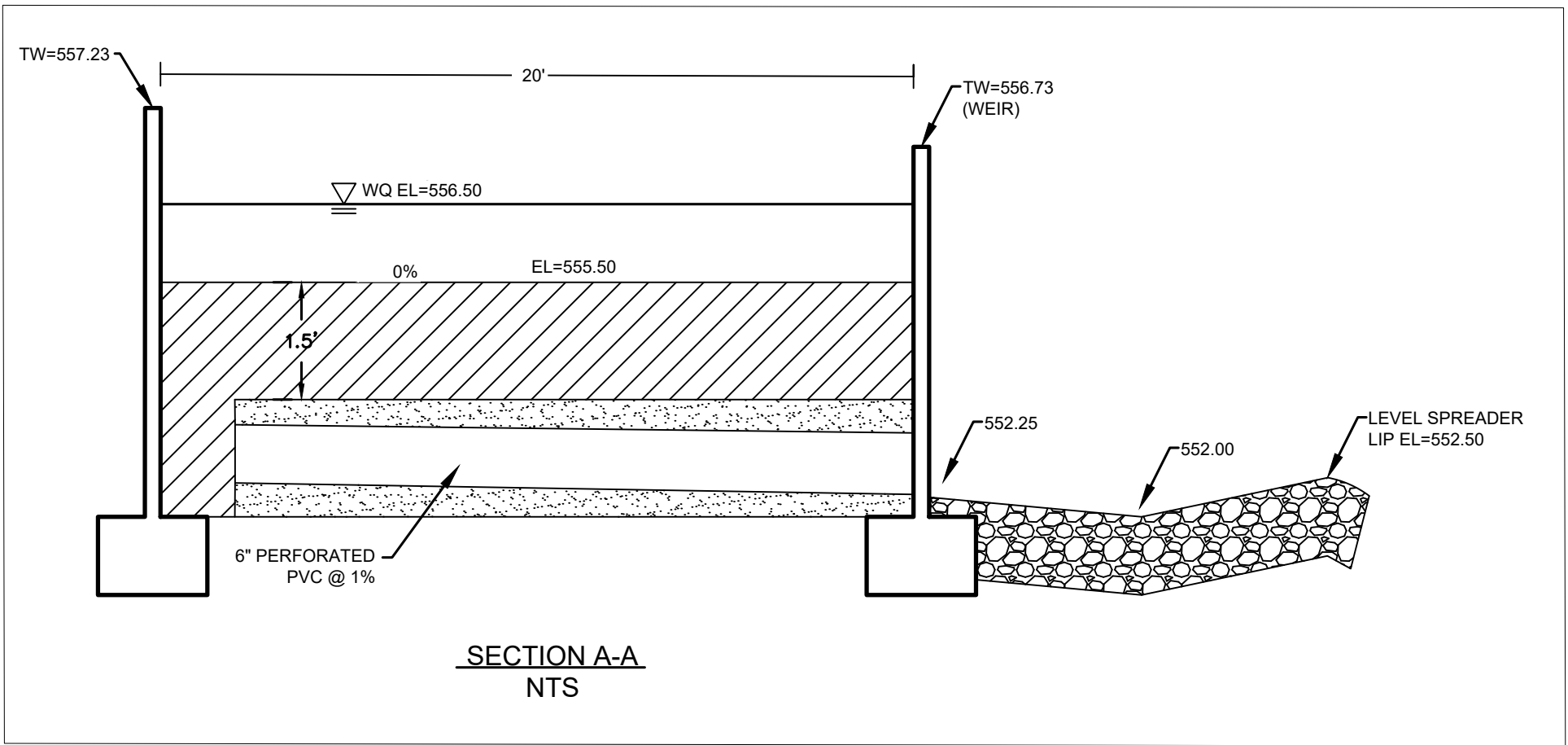
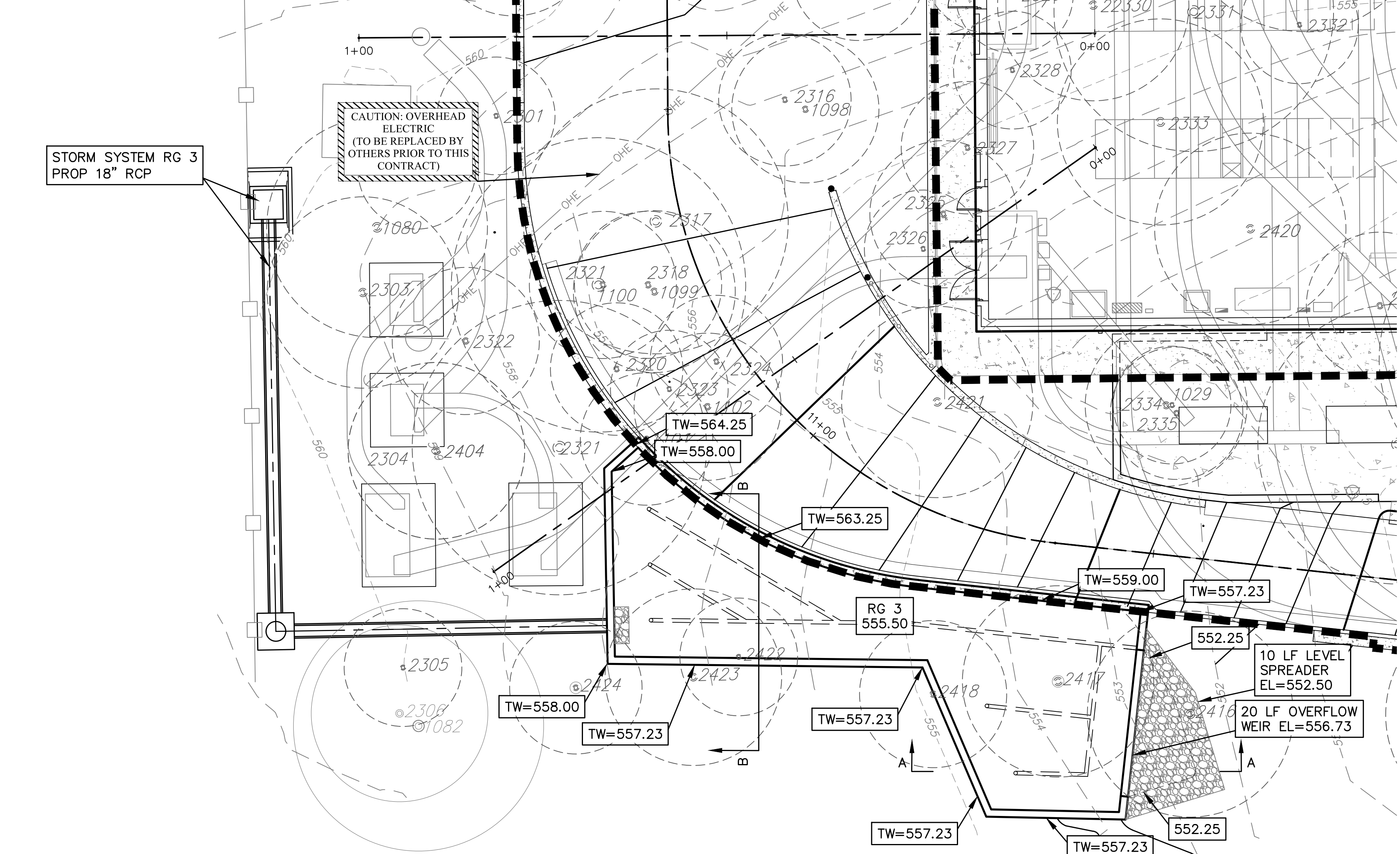
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Subbasin: RG 3 (LSPS)		
<b>Drainage Area Data:</b>		
Drainage Area to Control DA - Maximum 2.0 Ac.)	0.731	Ac.
Drainage Area Percent Impervious Cover	38.7	%
Capture Depth (CD)	0.69	in.
<b>Water Quality Control Calculations:</b>		
Water Quality Volume	Required 1821.74	cf.
	Provided 1936.64	cf.
100 Year Peak Flow Rate to Control (Q100)	6.72	cfs.
Filtration Pond Area (Af)	1165	sf.
Depth of Ponding (D)	Max. 1.0	ft.
Depth of Filtration Media (L)	Min. 1.5	ft.
Effective Porosity Water Quality Volume (WQV <sub>ac</sub> =0.24*Af*L)	512.64	cf.
Ponded Water Quality Volume (WQV <sub>ponded</sub> )=WQV-WQV <sub>ac</sub> )	1424	cf.
Total WQV	1936.64	cf.
Water Quality Elevation (WQE)	556.50	ft. MSL
Elevation of Splitter/Overflow Weir (Minimum WQE)	556.76	ft. MSL
Length of Splitter Weir	20	ft.
Required Head to Pass Q100	Max. 0.5	ft.
Pond Freeboard Provided to Pass Q100	Min. 0.25	ft.
0.5		ft.
<b>For Filtration Rain Gardens:</b>		
Rain Garden Pond Drawdown Time	Min. 48	hr.
-	-	hr.
-	-	sq. in.
<b>For Infiltration Rain Gardens:</b>		
Infiltration Rate (in/hr)	0.25	in/hr.
Rain Garden Pond Drawdown Time	48.00	hr.

LEGEND	
	LIMITS OF CONSTRUCTION
	EXISTING 1FT CONTOUR
	EXISTING 5FT CONTOUR
	PROP. 1FT CONTOUR
	PROP. 5FT CONTOUR
	PROPOSED SWALE
	PROPOSED STORM DRAIN LINE
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	PROPOSED UNDERDRAIN
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	EXISTING TREE TO BE REMOVED
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- REFER TO STRUCTURAL DRAWINGS FOR WALL DETAILS.



SITE PLAN APPROVAL SHEET	
FILE NUMBER	APPLICATION DATE
APPROVED BY COMMISSION ON	UNDER SECTION
OF THE CITY OF AUSTIN CODE	OF
EXPIRATION DATE(25-5-81, LDC)	CASE MANAGER
PROJECT EXPIRATION DATE (ORD. #970905-A)	DWPZ DOZ
Director, Watershed Protection and Development Review	
RELEASED FOR GENERAL COMPLIANCE: ZONING	
Rev. 1	Correction 1
Rev. 2	Correction 2
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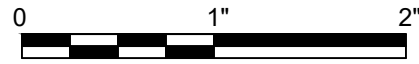


PROJECT MANAGER		
DESIGNED BY	TR	
DRAWN BY	JC	
CHECKED BY	JC	
DATE	01/21/2021	
PROJECT NUMBER	1126	

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DATE	01/21/2021
PROJECT NUMBER	1126



ULLRICH WTP  
LOW SERVICE PUMP STATION  
ELECTRICAL FEED RENEWAL



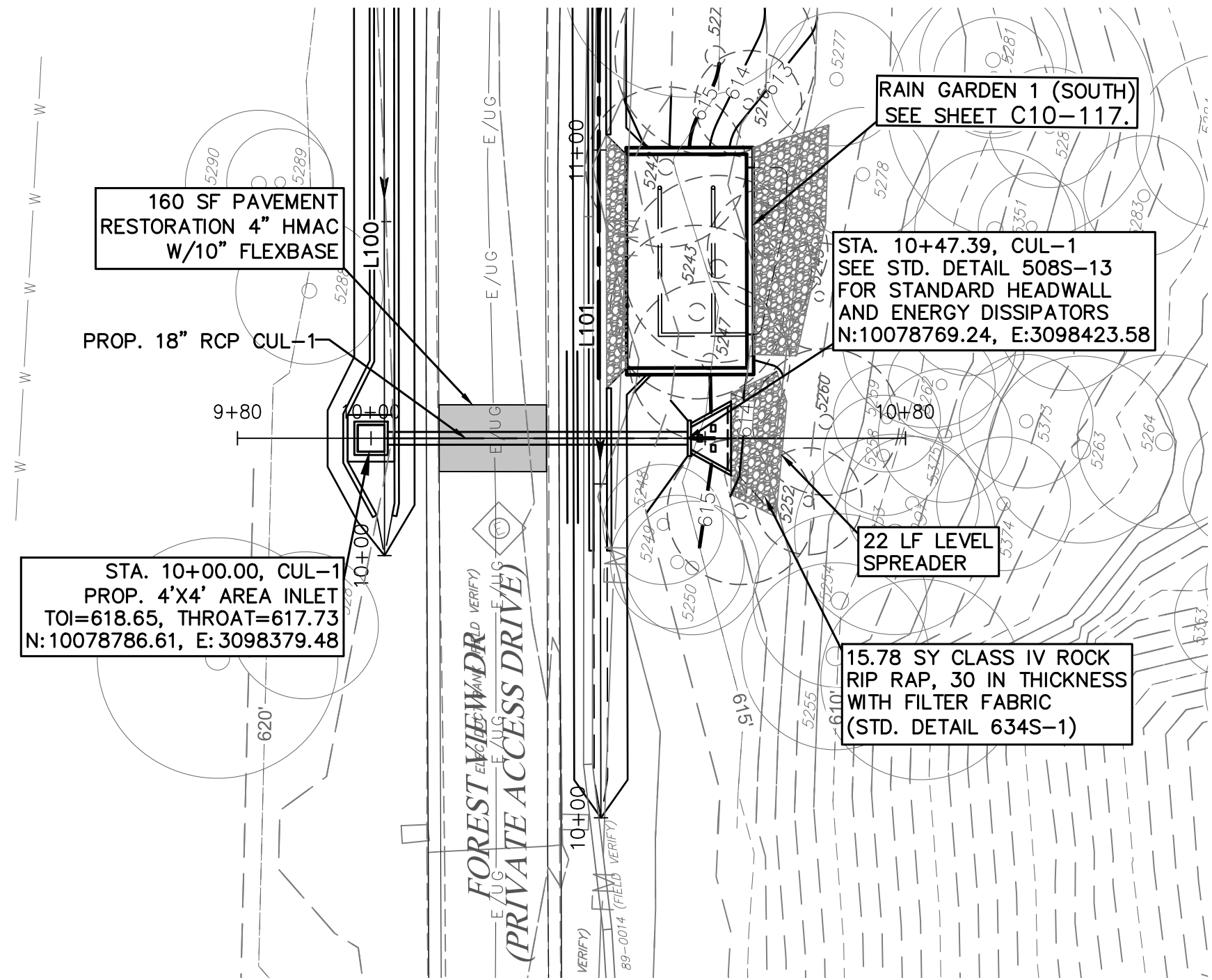
FILENAME 1126WQP03  
SCALE 1" = 20'

WATER QUALITY (4 OF 4)  
RAIN GARDEN 3 (LSPS)

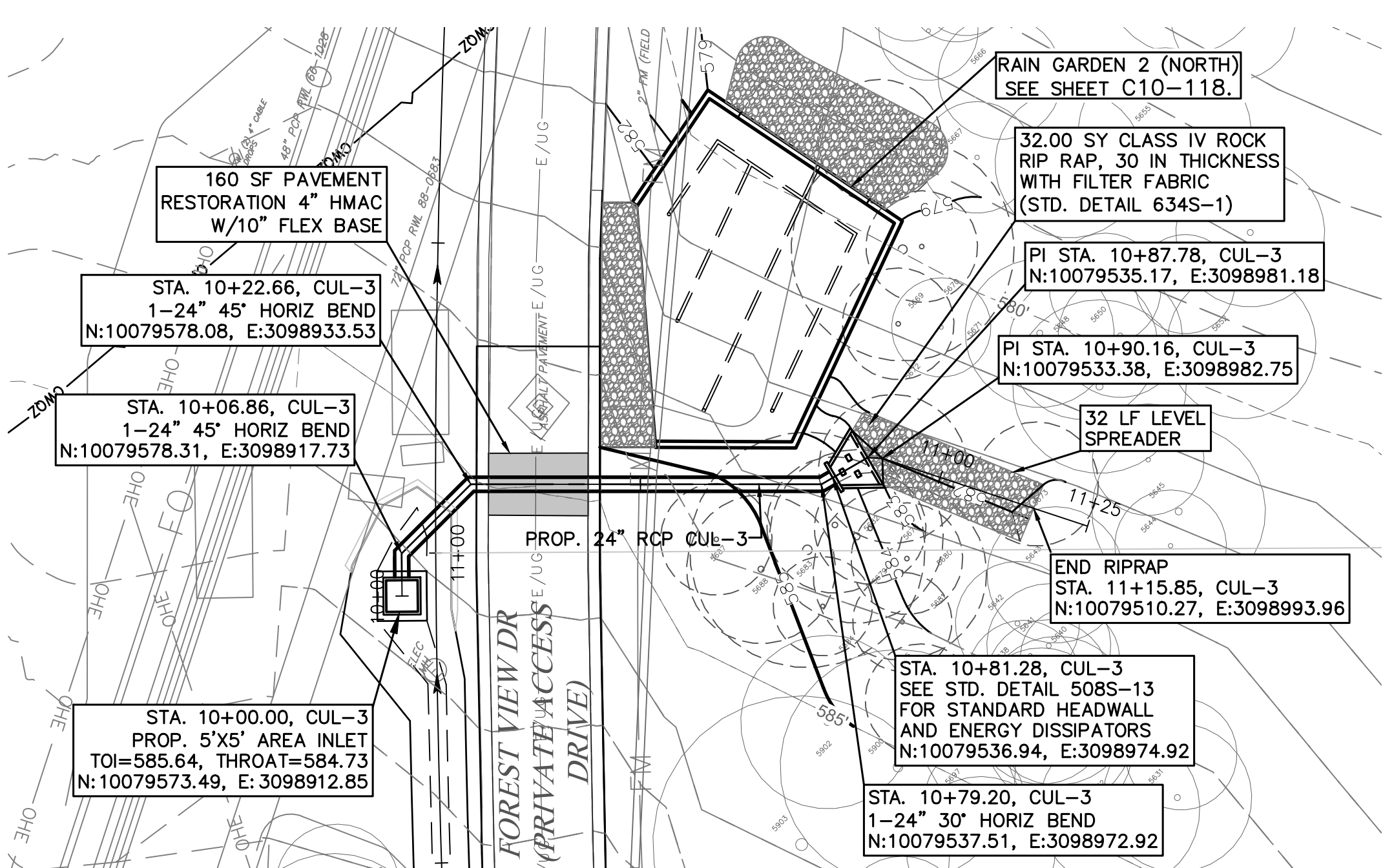
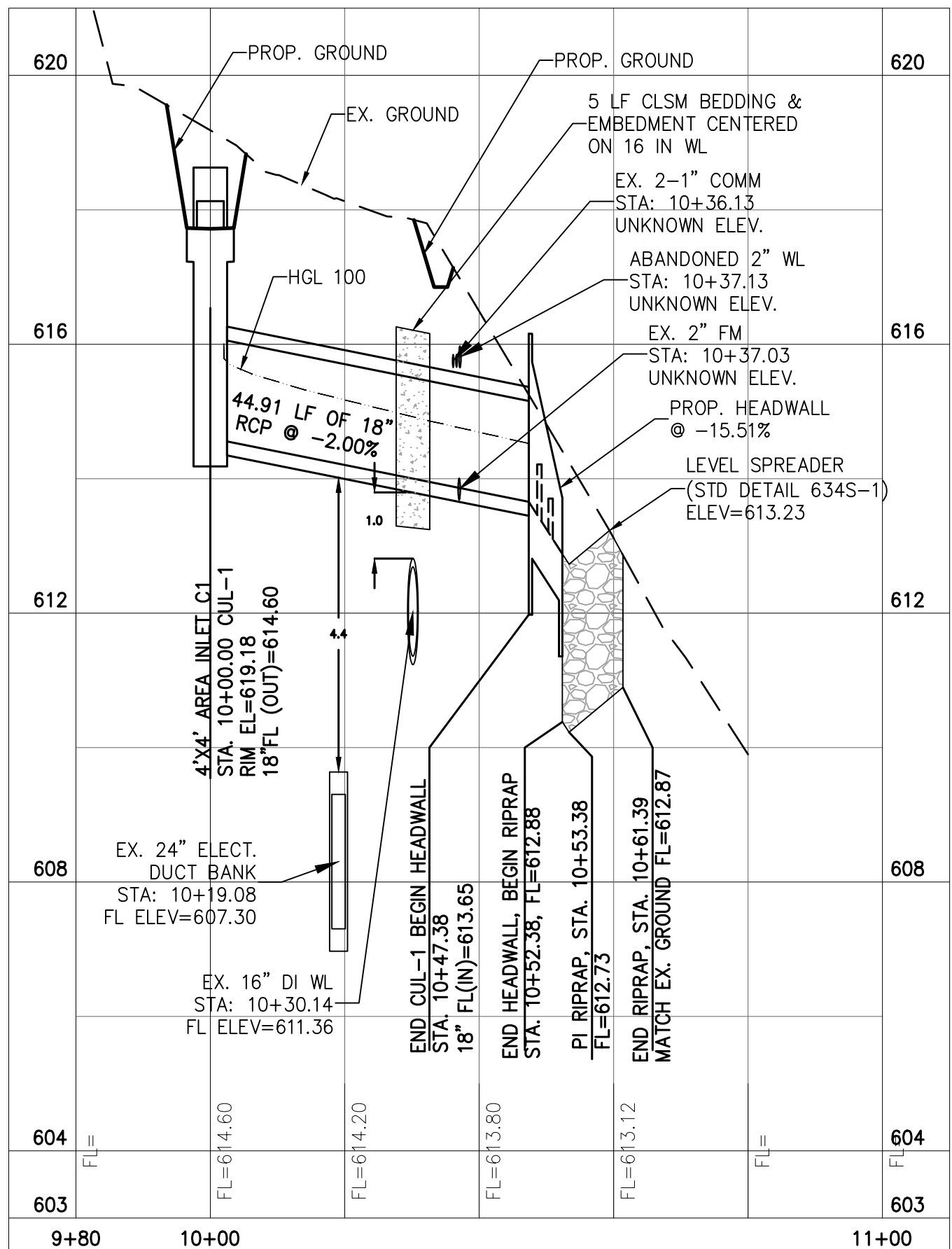
SHEET 36 of 350  
C10-118A



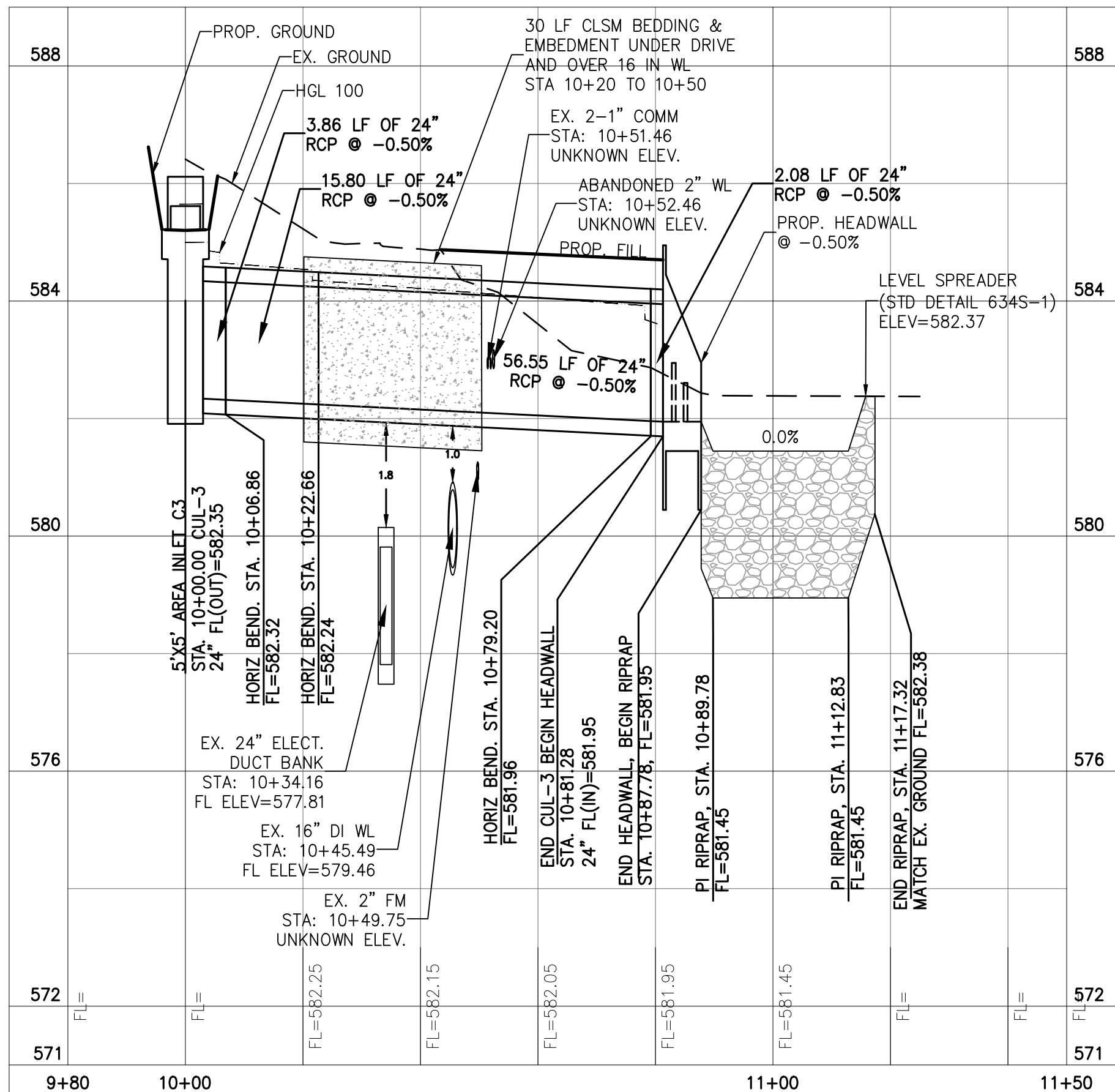
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CUL-1 PROFILE



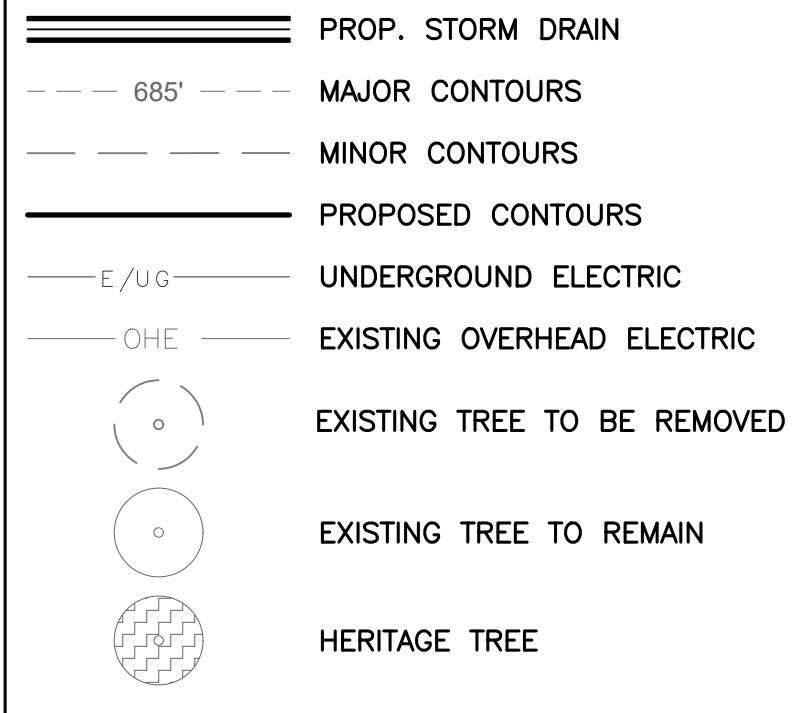
CUL-3 PROFILE



PROFILE LEGEND:  
EXISTING GROUND  
PROPOSED GRADE

- NOTES:
- CONTRACTOR TO FIELD VERIFY UTILITIES AND NOTIFY ENGINEER OF ANY CHANGES TO WHAT IS SHOWN.
  - IN THE EVENT A CONFLICT EXISTS WITH THE 2 IN FORCE MAIN, IT SHOULD BE LOWERED WITHOUT CREATING A LOCAL HIGHPOINT
  - CONTRACTOR SHALL COORDINATE WITH OWNER FOR TRAFFIC INTERRUPTIONS ASSOCIATED WITH CONSTRUCTION ALONG AND ACROSS THE PRIVATE ACCESS DRIVE. VEHICULAR ACCESS WILL NEED TO BE MAINTAINED AT ALL TIMES

LEGEND



SITE PLAN APPROVAL SHEET OF  
FILE NUMBER APPLICATION DATE:  
APPROVED BY COMMISSION ON UNDER SECTION OF  
CHAPTER OF THE CITY OF AUSTIN CODE  
EXPIRATION DATE(25-5-81, LDC) CASE MANAGER  
PROJECT EXPIRATION DATE (ORD. #970905-A) DWP DOZ

Director, Watershed Protection and Development Review  
RELEASED FOR GENERAL COMPLIANCE: ZONING

Rev. 1 Correction 1  
Rev. 2 Correction 2  
Rev. 3 Correction 3

Find Plot must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved prior to the Project Expiration Date.



0 01/21/2021 CONFORMED CONTRACT DRAWINGS

ISSUE DATE DESCRIPTION

PROJECT MANAGER

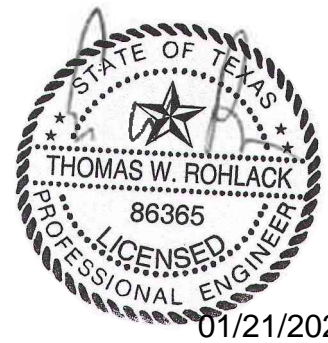
DESIGNED BY DG

DRAWN BY DCH

CHECKED BY DG

DATE Jan. 15, 21

PROJECT NUMBER 1126



01/21/2021



ULLRICH WTP  
LOW SERVICE PUMP STATION  
ELECTRICAL FEED RENEWAL

CROSS CULVERT PLAN & PROFILE  
CULVERT 1 & 3

0 1" 2"

FILENAME 1126STRM01

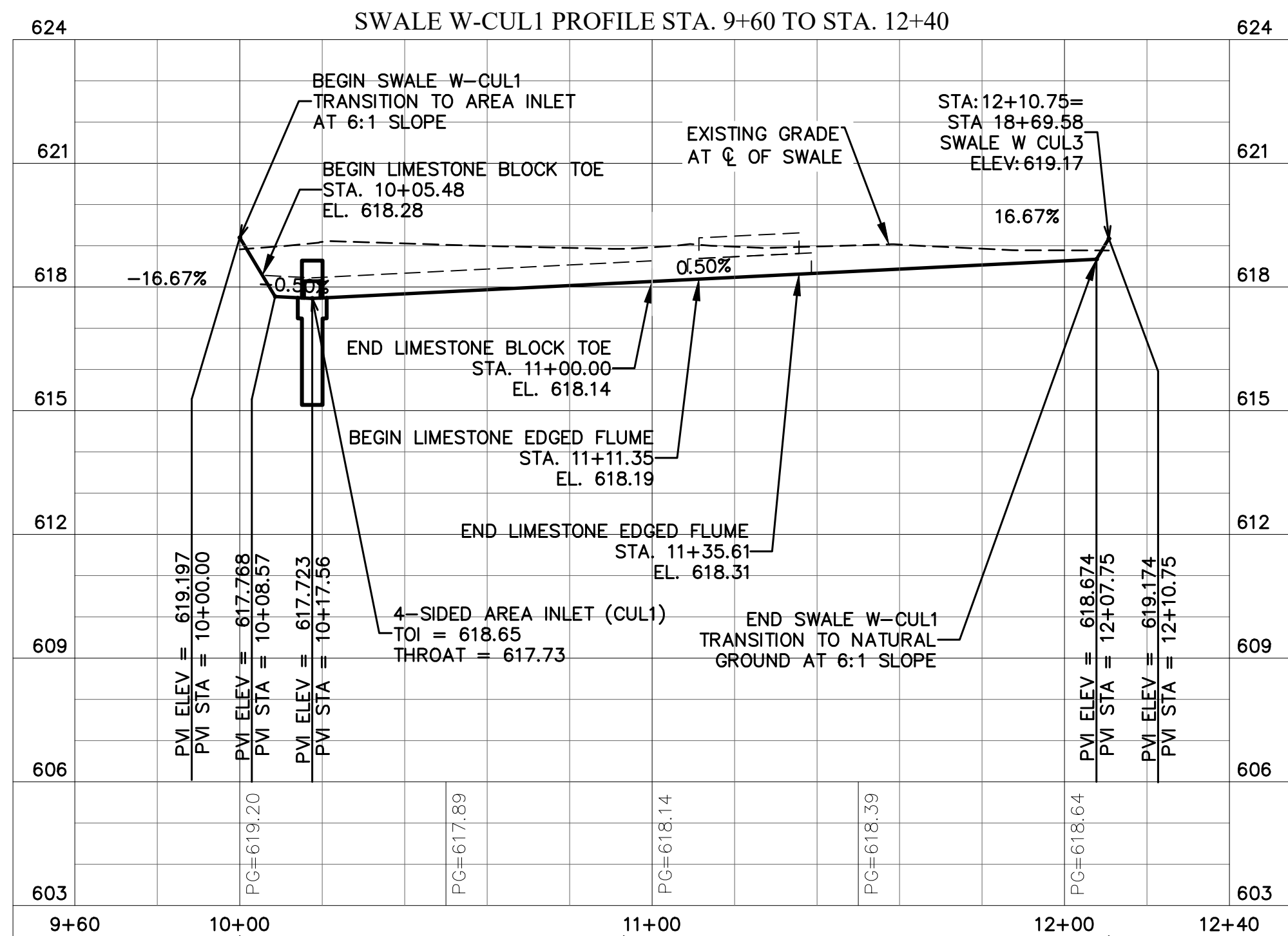
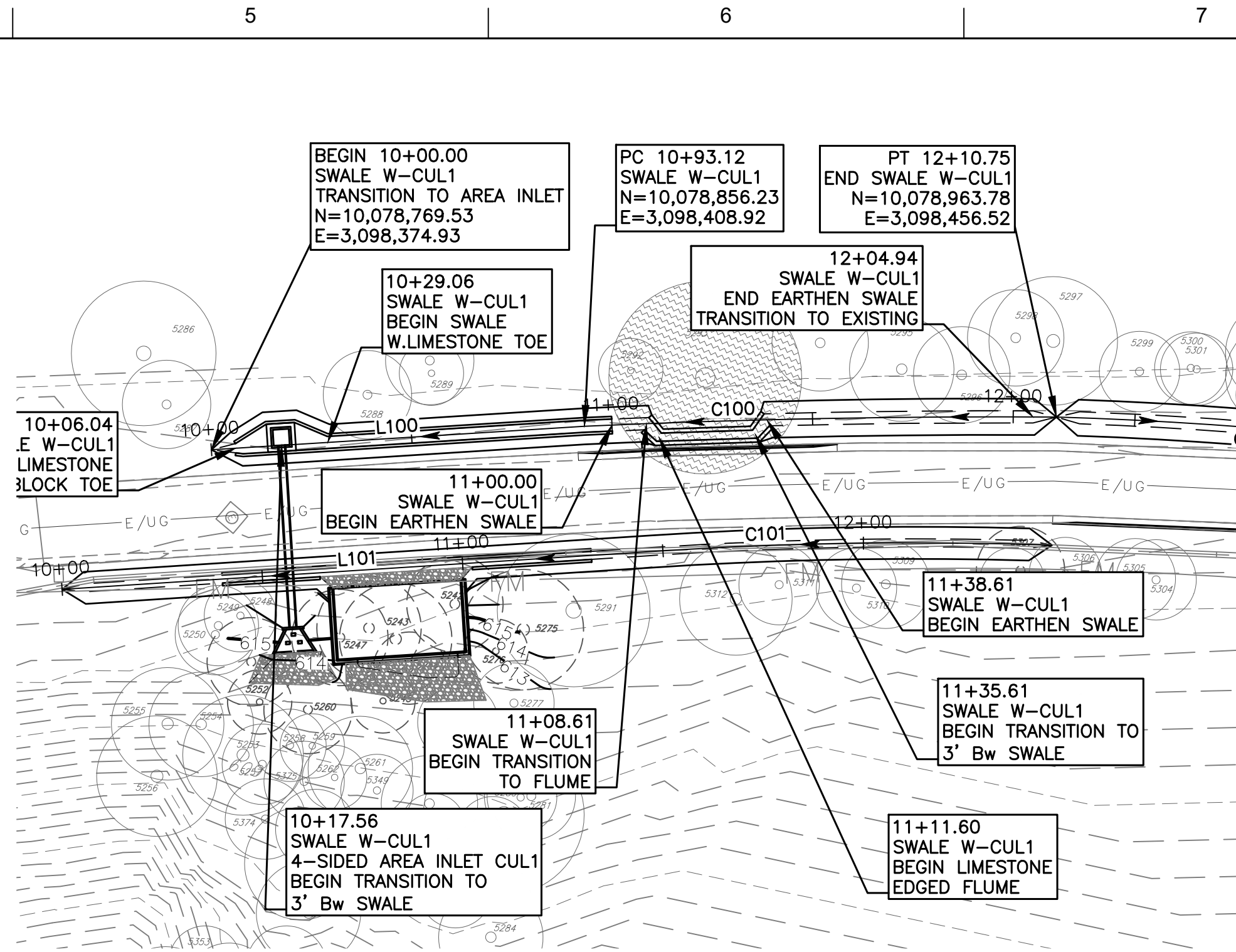
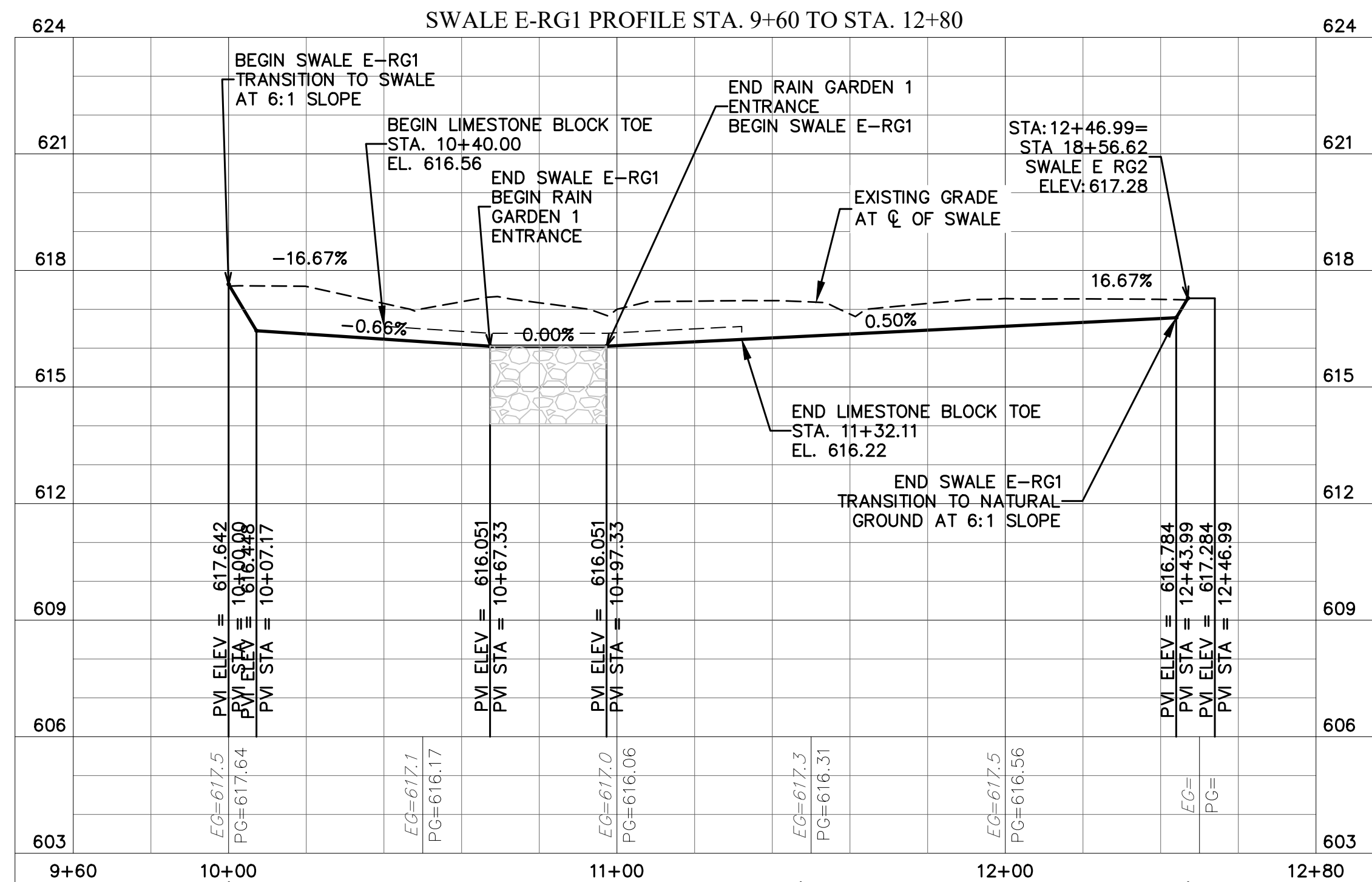
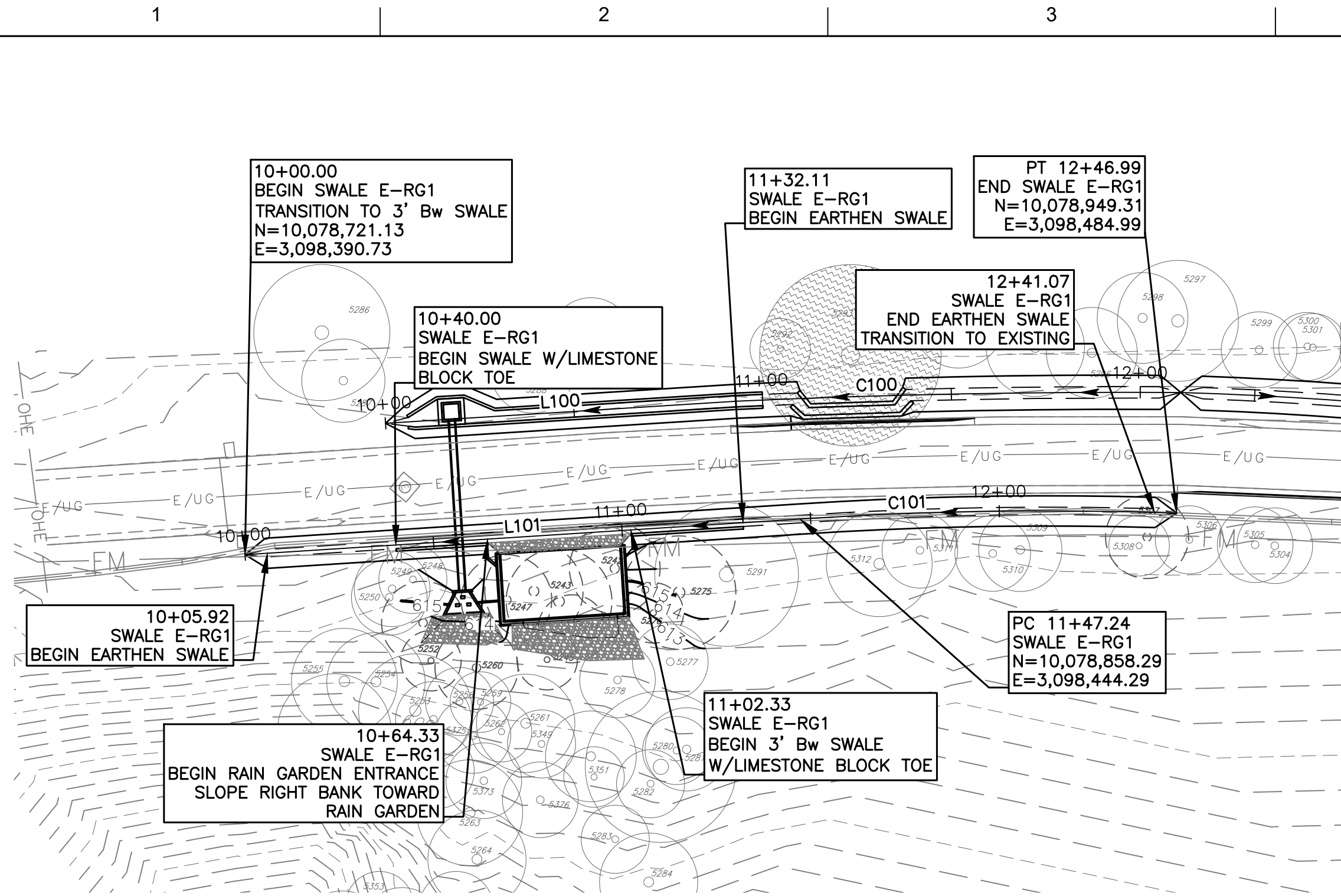
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SHEET 37 of 350

C10-118B



CADD FILE: \\CAS-DATASERVER\WATER\ACTIVE PROJECTS\COA W & WM LARGE & SMALL SCALE FACILITIES\HULLRICH LSPS SWITCHGEAR PROJECT\3.0 WORK PRODUCTS\3.6 CADD\126SWPP01 PLOTTED: 1/15/2021 2:01:16 PM BY: JANE FU CTB FILE: CAS.CTB



- NOTE:
- 1: SEE STORM DRAIN DETAIL SHEETS FOR SWALE SECTIONS AND CALCULATIONS.
  - 2: SEE WATER QUALITY SHEET FOR RAIN GARDENS.
  - 3: SEE CULVERT PLAN AND PROFILES FOR CULVERT INFORMATION.
  - 4: SEE SITE PLAN SHEETS FOR SWALE LINE & CURVE TABLES.
  - 5: CONTRACTOR SHALL COORDINATE WITH OWNER FOR TRAFFIC INTERRUPTIONS ASSOCIATED WITH CONSTRUCTION ALONG AND ACROSS THE PRIVATE ACCESS DRIVE. VEHICULAR ACCESS WILL NEED TO BE MAINTAINED AT ALL TIMES

LEGEND	
	PROP. STORM DRAIN
	MAJOR CONTOURS
	MINOR CONTOURS
	PROPOSED CONTOURS
	UNDERGROUND ELECTRIC
	EXISTING OVERHEAD ELECTRIC
	EXISTING TREE TO BE REMOVED
	EXISTING TREE TO REMAIN
	HERITAGE TREE

SITE PLAN APPROVAL	SHEET	OF
FILE NUMBER	APPLICATION DATE	
APPROVED BY COMMISSION ON	UNDER SECTION	OF
CHAPTER	OF THE CITY OF AUSTIN CODE	
EXPIRATION DATE(25-5-81, LDC)	CASE MANAGER	
PROJECT EXPIRATION DATE (ORD. #970905-A)	DWP7	D02

Director, Watershed Protection and Development Review  
RELEASED FOR GENERAL COMPLIANCE: ZONING

Rev. 1 Correction 1  
Rev. 2 Correction 2  
Rev. 3 Correction 3

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0 01/21/2021 CONFORMED CONTRACT DRAWINGS

ISSUE DATE DESCRIPTION

PROJECT MANAGER

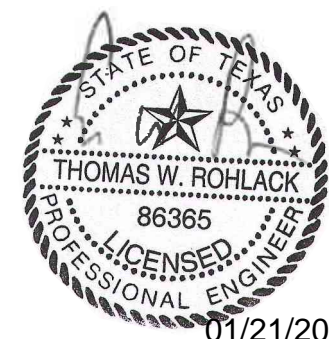
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DRAWN BY DCH

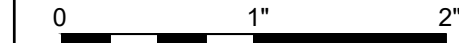
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DATE Jan. 15, 21

PROJECT NUMBER 1126



ULLRICH WTP  
LOW SERVICE PUMP STATION  
ELECTRICAL FEED RENEWAL



FILENAME 1126SWPP01  
SCALE H: 1"=30' V: 1"=3'

SWALE PLAN & PROFILE (1 OF 3)

SHEET 38 of 350  
C10-118C

SPC-03-005C (R2)

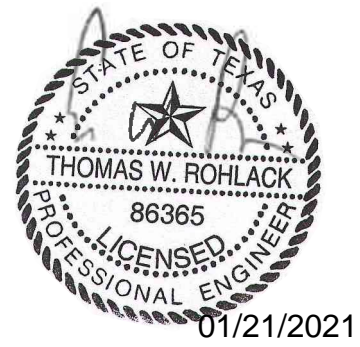


CADD FILE: \\CAS-DATASERVER\WATER\ACTIVE PROJECTS\COA W & WM LARGE & SMALL SCALE FACILITIES\HRR\ULLRICH LSPS SWITCHGEAR PROJECT\3.0 WORK PRODUCTS\3.6 CADD\126SWPP02 PLOTTED: 1/15/2021 2:05:27 PM BY: JANE FU CTB FILE: CAS.CTB

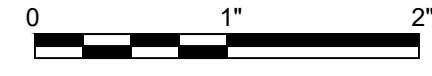


0			01/21/2021	CONFORMED CONTRACT DRAWINGS
ISSUE	DATE	DESCRIPTION		

PROJECT MANAGER	
DESIGNED BY	DG
DRAWN BY	DCH
CHECKED BY	DG
DATE	Jan. 15, 21
PROJECT NUMBER	1126



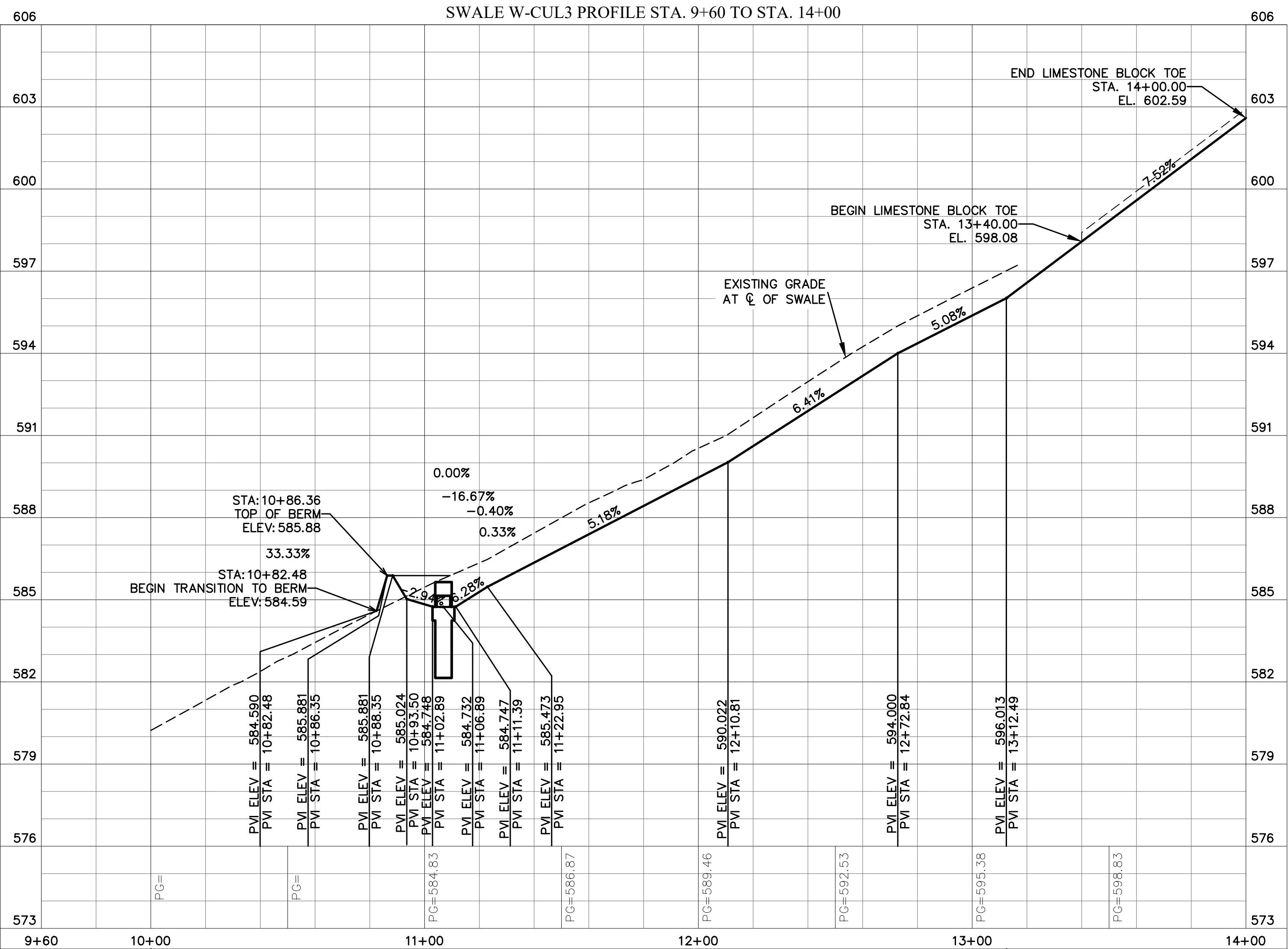
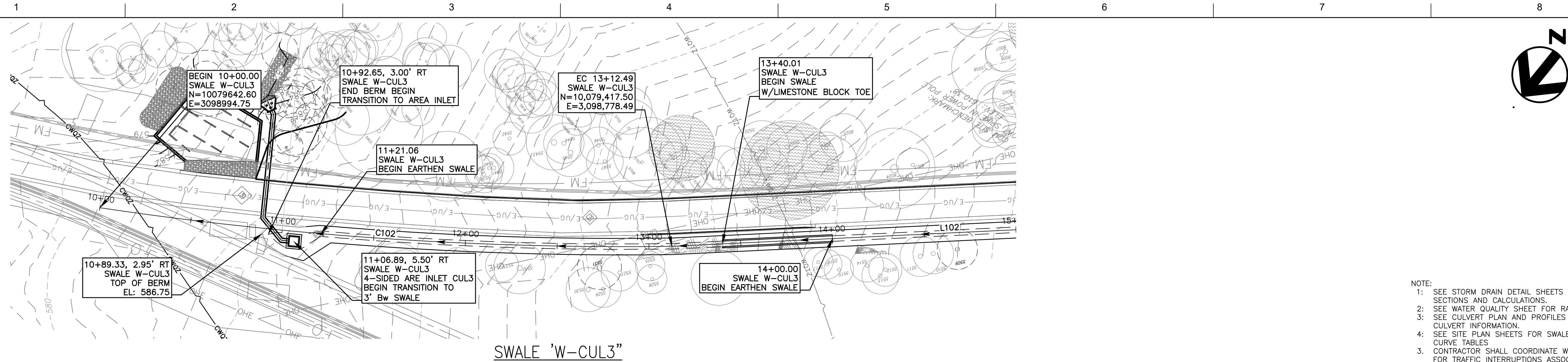
ULLRICH WTP  
LOW SERVICE PUMP STATION  
ELECTRICAL FEED RENEWAL



FILENAME 1126SWPP02  
SCALE H: 1"=30' V: 1"=3'

SHEET 39 of 350  
C10-118D

SPC-03-005C (R2)



- NOTE:
- 1: SEE STORM DRAIN DETAIL SHEETS FOR SWALE SECTIONS AND CALCULATIONS.
  - 2: SEE WATER QUALITY SHEET FOR RAIN GARDENS.
  - 3: SEE CULVERT PLAN AND PROFILES FOR CULVERT INFORMATION.
  - 4: SEE SITE PLAN SHEETS FOR SWALE LINE & CURVE TABLES.
  3. CONTRACTOR SHALL COORDINATE WITH OWNER FOR TRAFFIC INTERRUPTIONS ASSOCIATED WITH CONSTRUCTION ALONG AND ACROSS THE PRIVATE ACCESS DRIVE. VEHICULAR ACCESS WILL NEED TO BE MAINTAINED AT ALL TIMES

LEGEND	
	PROP. STORM DRAIN
	MAJOR CONTOURS
	MINOR CONTOURS
	PROPOSED CONTOURS
	UNDERGROUND ELECTRIC
	EXISTING OVERHEAD ELECTRIC
	EXISTING TREE TO BE REMOVED
	EXISTING TREE TO REMAIN
	HERITAGE TREE

SITE PLAN APPROVAL	SHEET	OF
FILE NUMBER	APPLICATION DATE	
APPROVED BY COMMISSION ON	UNDER SECTION	OF
CHAPTER	OF THE CITY OF AUSTIN CODE	
EXPIRATION DATE(25-5-81, LDC)	CASE MANAGER	
PROJECT EXPIRATION DATE (ORD. #970905-A)	DWPZ	DOZ

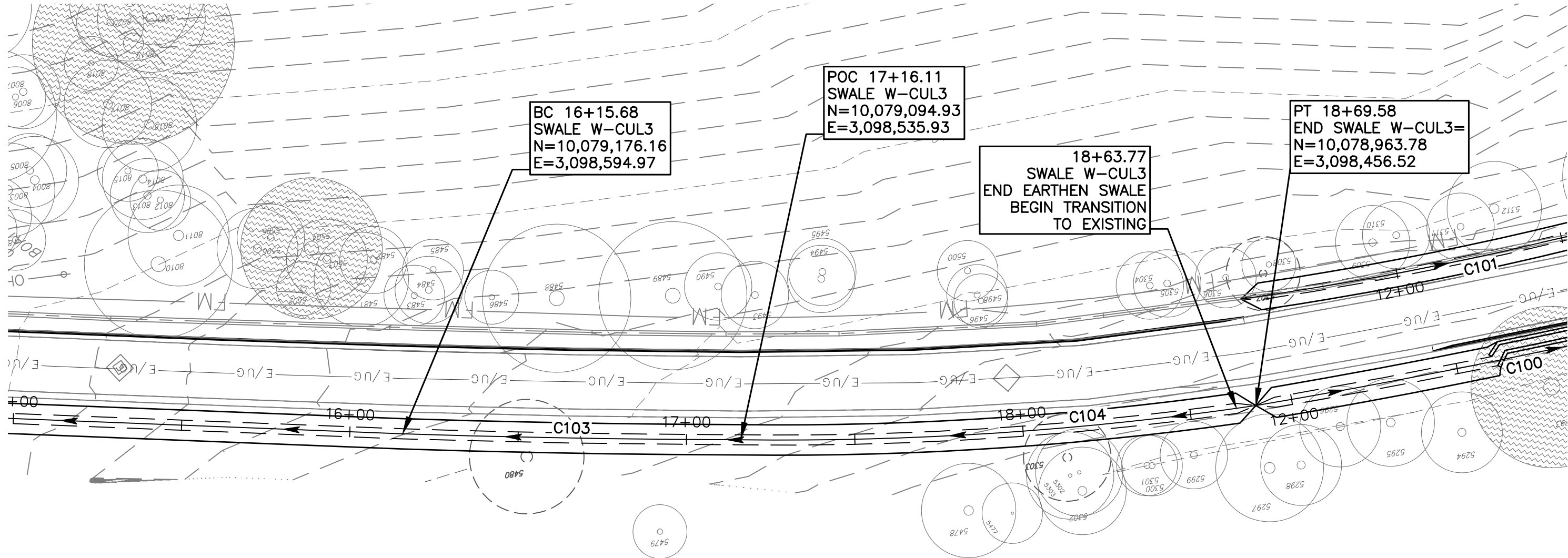
Director, Watershed Protection and Development Review  
RELEASED FOR GENERAL COMPLIANCE: \_\_\_\_\_ ZONING: \_\_\_\_\_

Rev. 1 \_\_\_\_\_ Correction 1 \_\_\_\_\_  
Rev. 2 \_\_\_\_\_ Correction 2 \_\_\_\_\_  
Rev. 3 \_\_\_\_\_ Correction 3 \_\_\_\_\_

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CADD FILE: \\CAS-DATASERVER\WATER\ACTIVE PROJECTS\COA W & WM LARGE & SMALL SCALE FACILITIES\HRR\ULLRICH LSPS SWITCHGEAR PROJECT\3.0 WORK PRODUCTS\3.6 CADD\126SWPP03 PLOTTED: 1/15/2021 2:09:37 PM BY: JANE FU CTB FILE: CAS.CTB

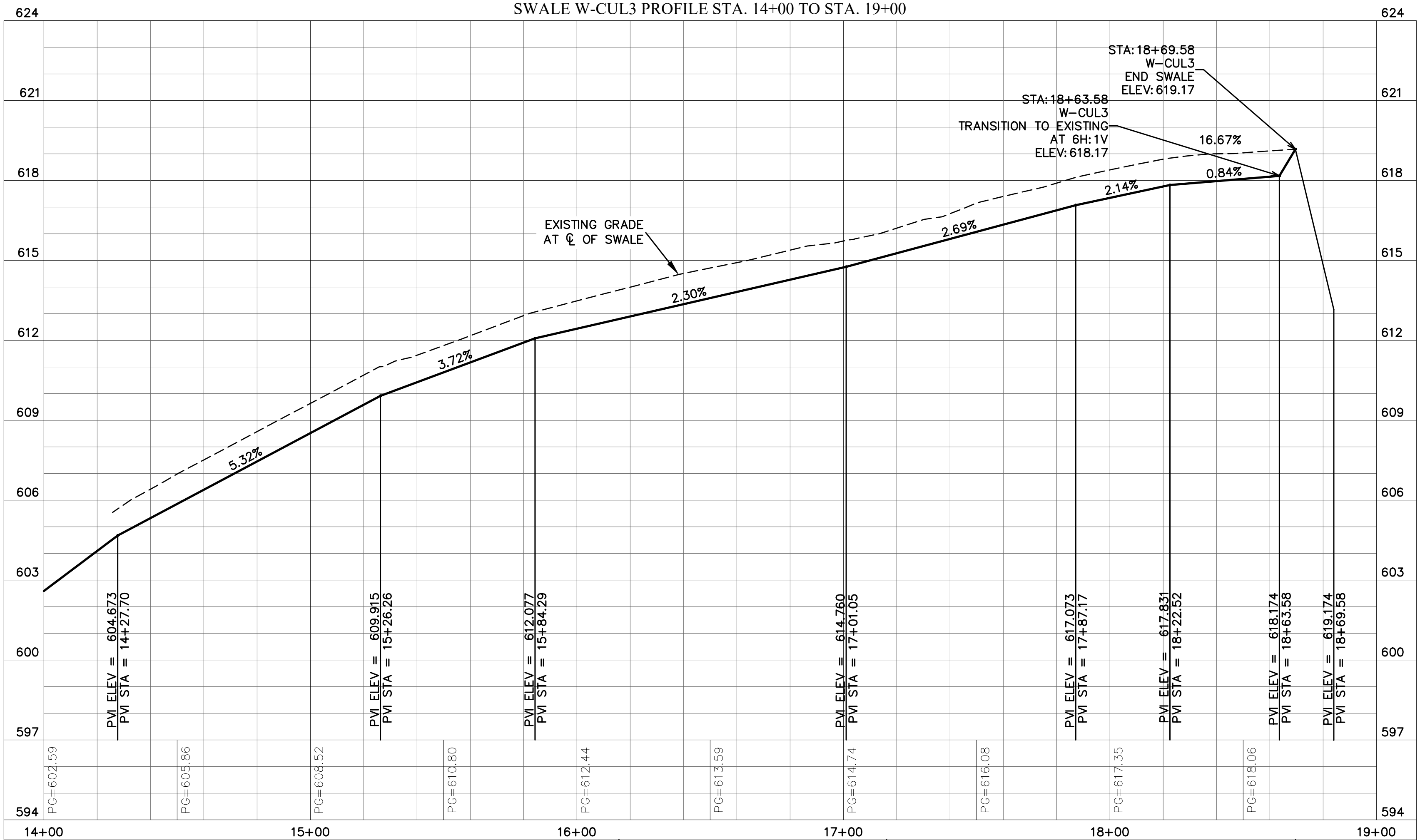


SWALE 'W-CUL3'

- NOTE:
- 1: SEE STORM DRAIN DETAIL SHEETS FOR SWALE SECTIONS AND CALCULATIONS.
  - 2: SEE WATER QUALITY SHEET FOR RAIN GARDENS.
  - 3: SEE CULVERT PLAN AND PROFILES FOR CULVERT INFORMATION.
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LEGEND

	PROP. STORM DRAIN
	MAJOR CONTOURS
	MINOR CONTOURS
	PROPOSED CONTOURS
	UNDERGROUND ELECTRIC
	EXISTING OVERHEAD ELECTRIC
	EXISTING TREE TO BE REMOVED
	EXISTING TREE TO REMAIN
	HERITAGE TREE



SITE PLAN APPROVAL SHEET _____ OF _____	FILE NUMBER _____	APPLICATION DATE: _____
APPROVED BY COMMISSION ON _____ UNDER SECTION _____ OF _____	CHAPTER _____ OF THE CITY OF AUSTIN CODE.	EXPIRATION DATE(25-5-81, LDC) _____ CASE MANAGER _____
PROJECT EXPIRATION DATE (ORD. #970905-A) _____ DWP _____ DOZ _____		
Director, Watershed Protection and Development Review		
RELEASED FOR GENERAL COMPLIANCE: _____ ZONING _____		
Rev. 1 _____	Correction 1 _____	
Rev. 2 _____	Correction 2 _____	
Rev. 3 _____	Correction 3 _____	
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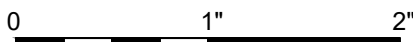
ISSUE	DATE	DESCRIPTION
0	01/21/2021	CONFORMED CONTRACT DRAWINGS

PROJECT MANAGER	
DESIGNED BY	DG
DRAWN BY	DCH
CHECKED BY	DG
DATE	Jan. 15, 21
PROJECT NUMBER	1126



ULLRICH WTP  
LOW SERVICE PUMP STATION  
ELECTRICAL FEED RENEWAL

WEST SWALE PLAN & PROFILE (3 OF 3)

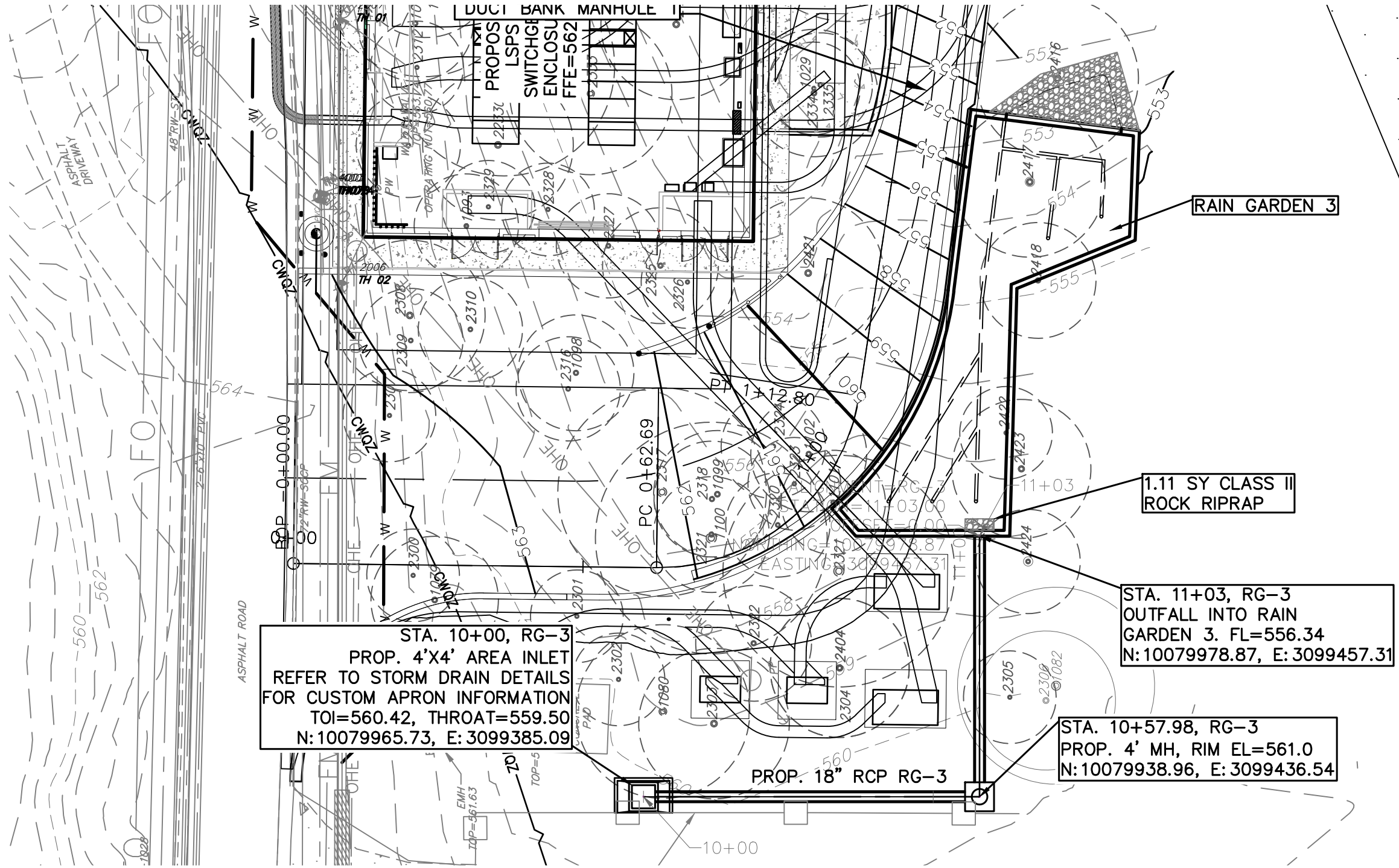


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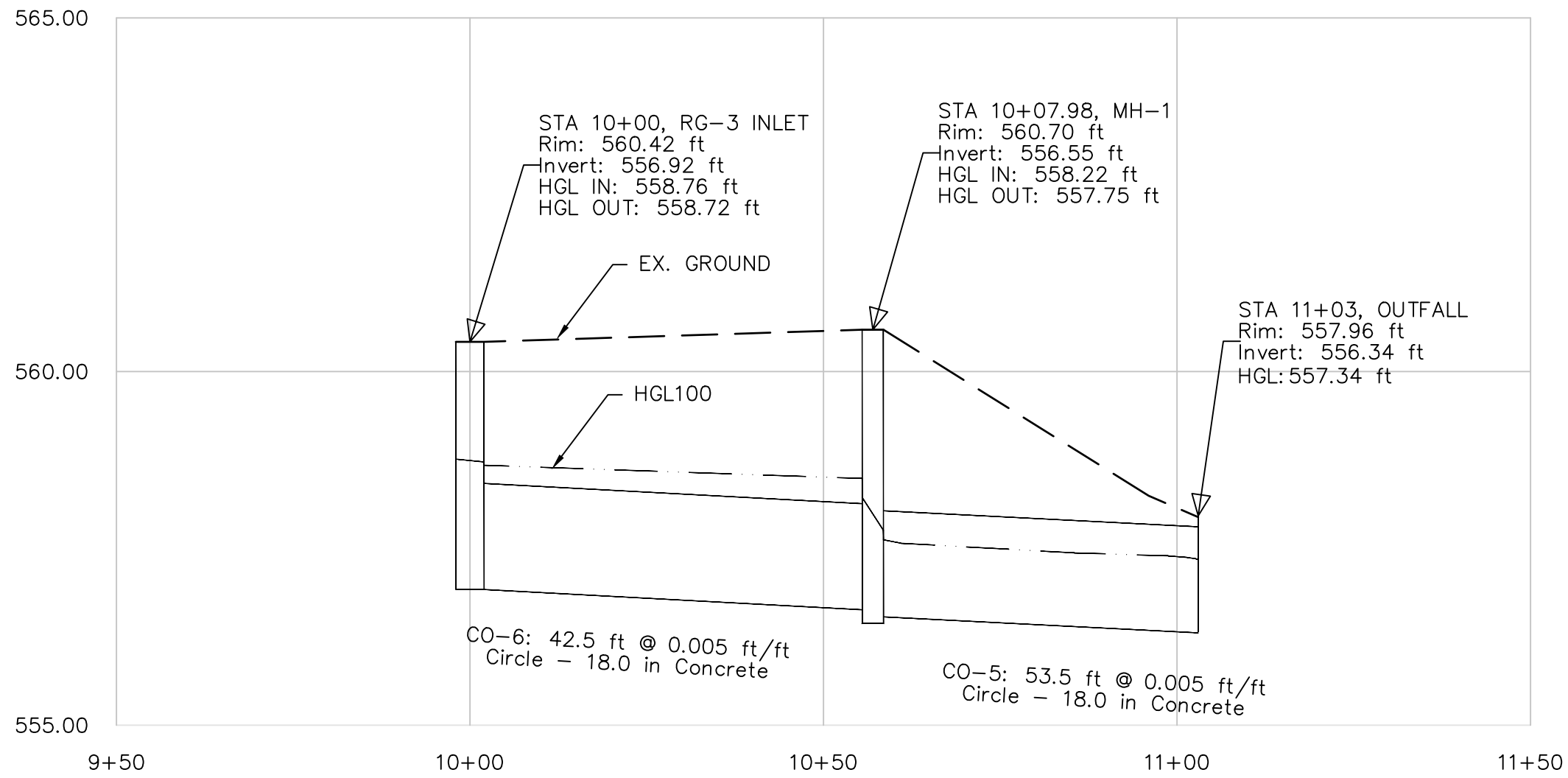
SHEET | 40 of 350  
C10-118E



CADD FILE: \\CAS-DATASERVER\WATER\ACTIVE PROJECTS\COA W & WM LARGE & SMALL SCALE FACILITIES\HRR\ULLRICH LSPS SWITCHGEAR PROJECT\3.0 WORK PRODUCTS\3.6 CAD\1126SWPP04 PLOTTED- 1/15/2021 2:13:50 PM BY: JANE FU CTB FILE: CAS.CTB



### RG3 - STORM DRAIN



- NOTES:
- CONTRACTOR TO FIELD VERIFY UTILITIES AND NOTIFY ENGINEER OF ANY CHANGES TO WHAT IS SHOWN.

#### LEGEND

	PROP. STORM DRAIN
	MAJOR CONTOURS
	MINOR CONTOURS
	PROPOSED CONTOURS
	UNDERGROUND ELECTRIC
	EXISTING OVERHEAD ELECTRIC
	EXISTING TREE TO BE REMOVED
	EXISTING TREE TO REMAIN
	HERITAGE TREE

SITE PLAN APPROVAL	SHEET	OF
FILE NUMBER	APPLICATION DATE	
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CHAPTER	OF THE CITY OF AUSTIN CODE	
EXPIRATION DATE(25-5-81, LDC)	CASE MANAGER	
PROJECT EXPIRATION DATE (ORD. #970905-A)	DWP#	DOZ

Director, Watershed Protection and Development Review	
RELEASED FOR GENERAL COMPLIANCE: _____ ZONING _____	
Rev. 1	Correction 1
Rev. 2	Correction 2
Rev. 3	Correction 3

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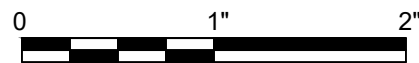
ISSUE	DATE	DESCRIPTION
0	01/21/2021	CONFORMED CONTRACT DRAWINGS

PROJECT MANAGER	
DESIGNED BY	DG
DRAWN BY	DCH
CHECKED BY	DG
DATE	Jan. 15, 21
PROJECT NUMBER	1126



ULLRICH WTP  
LOW SERVICE PUMP STATION  
ELECTRICAL FEED RENEWAL

### STORM PLAN & PROFILE (1 OF 1)

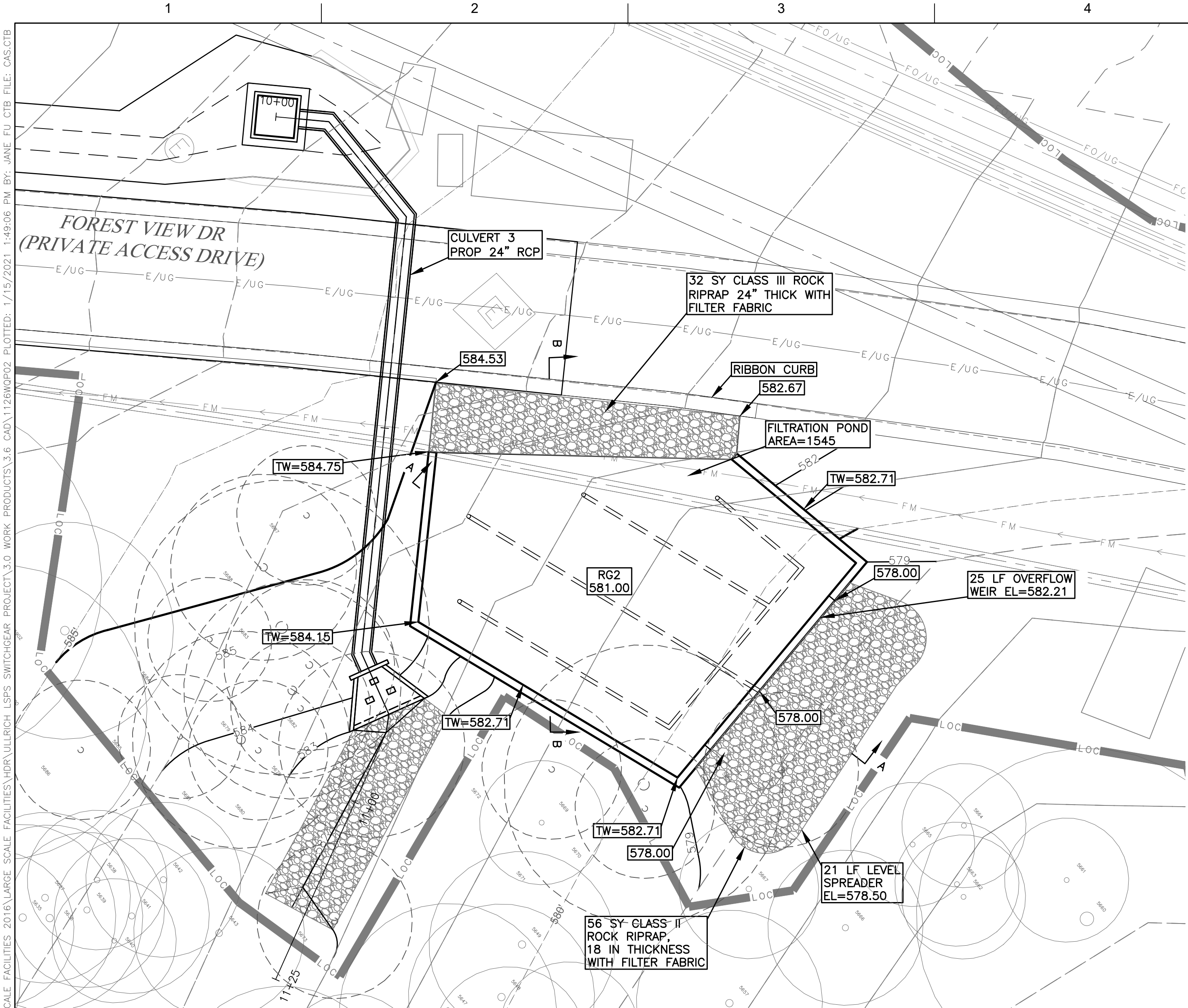


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SHEET 41 of 350  
**C10-118F**

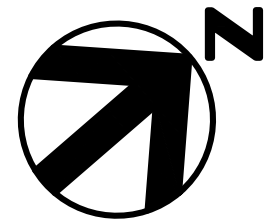


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NOTE:

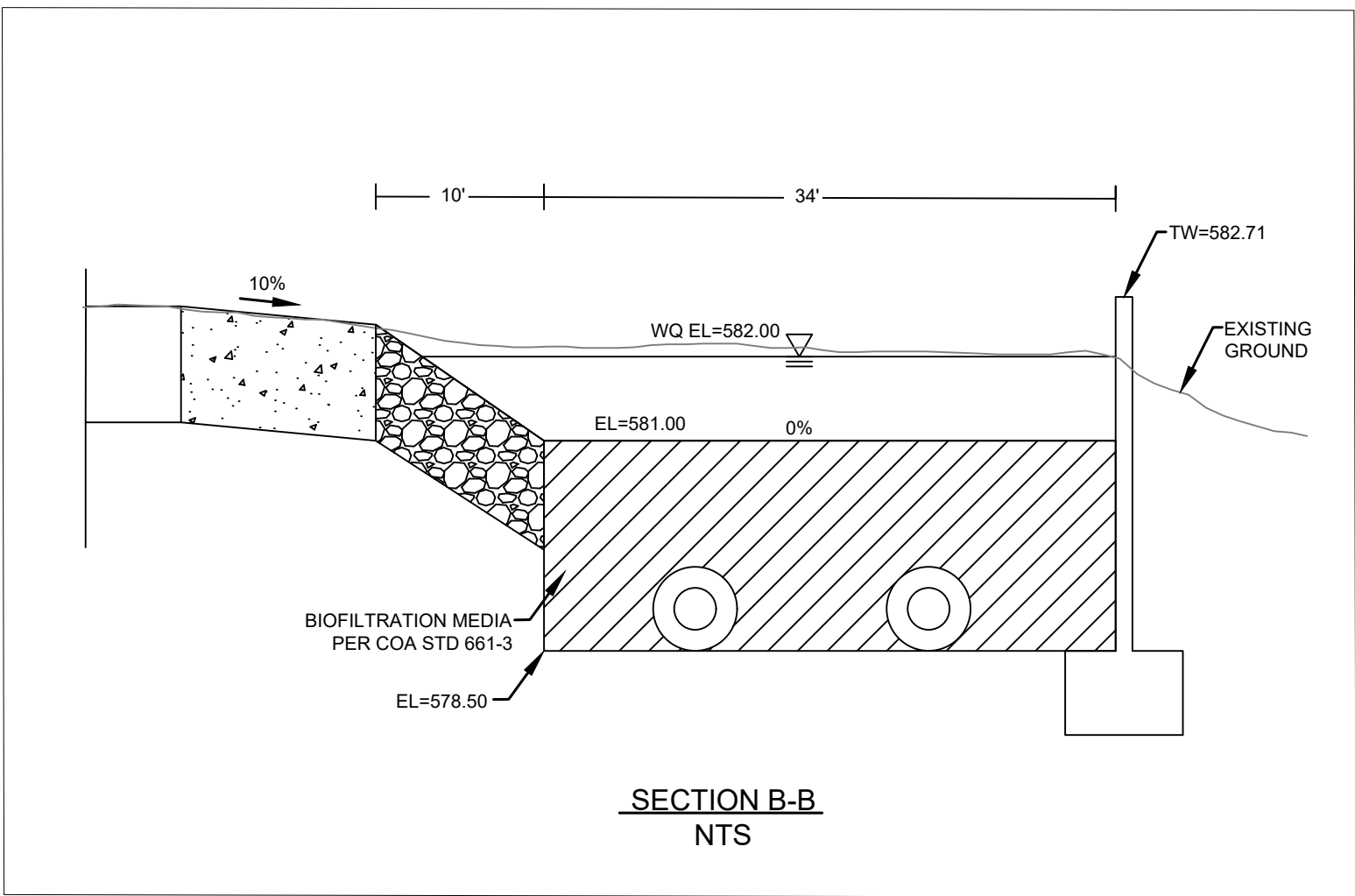
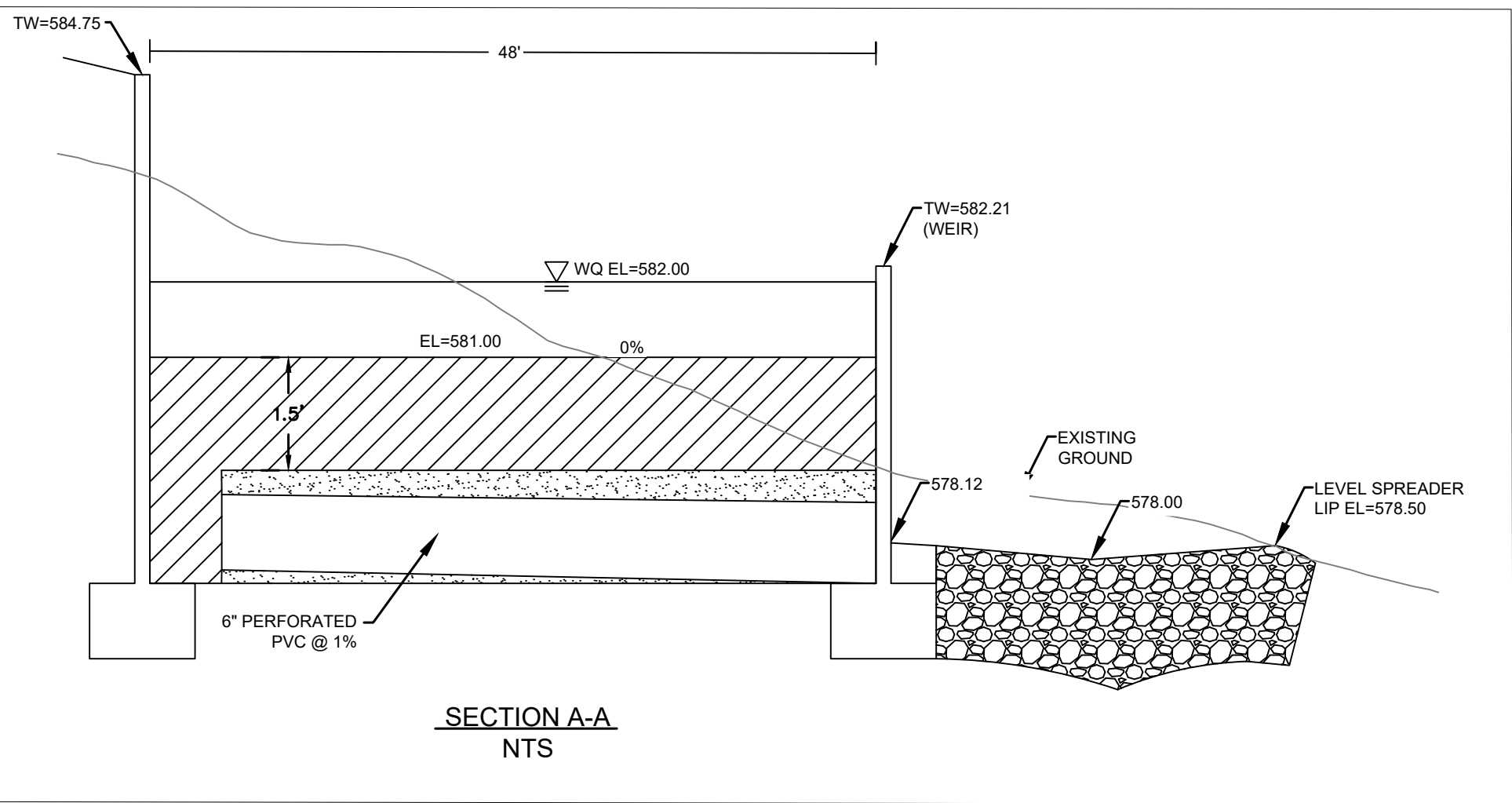
- CONTRACTOR SHALL MAINTAIN ACCESS ALONG FOREST VIEW DR. DURING ALL PHASES OF CONSTRUCTION. COORDINATE WITH OWNERS REPRESENTATIVE FOR SHORT TERM TRAFFIC INTERRUPTIONS.
- RAIN GARDEN VEGETATION SHALL CONSIST OF CELEBRATION BERMUDA GRASS.
- OWNER MUST ADHERE TO MAINTENANCE AND INTEGRATED PEST MANAGEMENT PLAN.
- REFER TO SITE PLAN SHEET C10-101A FOR COORDINATES FOR POND WALLS.
- LINER NOT REQUIRED FOR RAIN GARDENS.
- REFER TO STRUCTURAL DRAWINGS FOR WALL DETAILS.



LEGEND	
	LIMITS OF CONSTRUCTION
	EXISTING 1FT CONTOUR
	EXISTING 5FT CONTOUR
	PROP. 1FT CONTOUR
	PROP. 5FT CONTOUR
	PROPOSED SWALE
	PROPOSED STORM DRAIN LINE
	PROPOSED RETAINING WALL
	PROPOSED UNDERDRAIN
	PROPOSED ROCK RIPRAP
	EXISTING TREE TO BE REMOVED
	EXISTING TREE TO REMAIN
	HERITAGE TREE TO REMAIN

City of Austin - Environmental Criteria Manual  
Appendix R-11 - Rain Garden Calculations For Development Permits

Subbasin: RG 2 (North)							
<b>Drainage Area Data:</b>							
Drainage Area to Control DA - Maximum 2.0 Ac.)	0.588 Ac.						
Drainage Area Percent Impervious Cover	56.6 %						
Capture Depth (CD)	0.87 in.						
<b>Water Quality Control Calculations:</b>							
Water Quality Volume	<table><tr><th>Required</th><th>Provided</th></tr><tr><td>2055 cf.</td><td>2101 cf.</td></tr></table>	Required	Provided	2055 cf.	2101 cf.		
Required	Provided						
2055 cf.	2101 cf.						
100 Year Peak Flow Rate to Control (Q100)	6.65 cfs.						
Filtration Pond Area (Af)	1315 sf.						
Depth of Ponding (D)	Max 1.0 ft.						
Depth of Filtration Media (L)	Min. 1.5 ft.						
Effective Porosity Water Quality Volume (WQvac=0.24*Af*L)	556 cf.						
Ponded Water Quality Volume (WQVponded)=WQV-WQV(ac)	1545 cf.						
	Total WQV 2101 cf.						
Water Quality Elevation (WQE)	582.00 ft. MSL						
Elevation of Splitter/Overflow Weir (Minimum WQE)	582.22 ft. MSL						
Length of Splitter Weir	25 ft.						
Required Head to Pass Q100	Max 0.5 ft.						
Pond Freeboard Provided to Pass Q100	Min. 0.25 ft.						
	0.5 ft.						
<b>For Filtration Rain Gardens:</b>							
Rain Garden Pond Drawdown-Time	<table><tr><td>Min. 48 hr.</td><td>- hr.</td></tr><tr><td></td><td>- in.</td></tr><tr><td></td><td>- eq.-in.</td></tr></table>	Min. 48 hr.	- hr.		- in.		- eq.-in.
Min. 48 hr.	- hr.						
	- in.						
	- eq.-in.						
<b>For Infiltration Rain Gardens:</b>							
Infiltration Rate (in/hr)	0.25 in/hr.						
Rain Garden Pond Drawdown Time	48.00 hr.						



SITE PLAN APPROVAL	SHEET	OF
FILE NUMBER	APPLICATION DATE	
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CHAPTER	OF THE CITY OF AUSTIN CODE	
EXPIRATION DATE(25-5-81, LDC)	CASE MANAGER	
PROJECT EXPIRATION DATE (ORD. #970905-A)	DWP#	DOZ
Director, Watershed Protection and Development Review		
RELEASED FOR GENERAL COMPLIANCE: ZONING		
Rev. 1	Correction 1	
Rev. 2	Correction 2	
Rev. 3	Correction 3	
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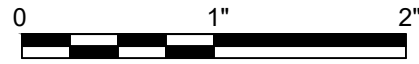


ISSUE	DATE	DESCRIPTION
0	01/21/2021	CONFORMED CONTRACT DRAWINGS

PROJECT MANAGER	
DESIGNED BY	
DRAWN BY	
CHECKED BY	
DATE	
PROJECT NUMBER	1126



ULLRICH WTP  
LOW SERVICE PUMP STATION  
ELECTRICAL FEED RENEWAL



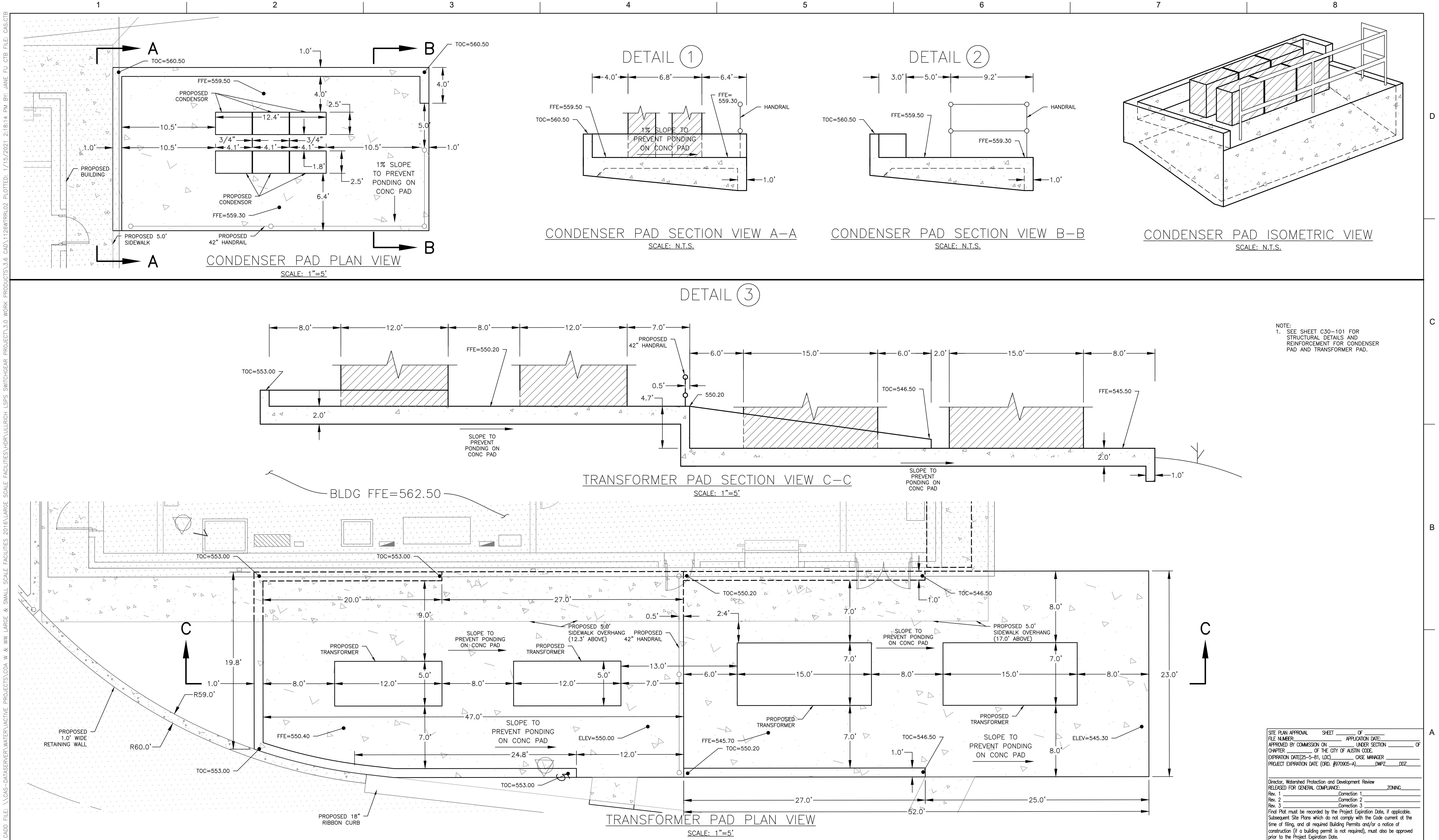
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SCALE 1" = 10'


SHEET 35 of 350  
C10-118













CAS CONSULTING & SERVICES, INC.  
CIVIL ENGINEERING | PROGRAM MANAGEMENT | CONSTRUCTION MANAGEMENT  
7908 Cameron Road | Austin, TX 78754 | REG. NO. F-003572  
MAIN: 512.695.1288 | FAX: 512.696.4515

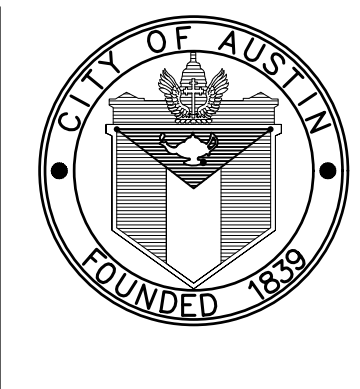


HDR  
Texas P.E. Firm  
Registration No. F-754

PROJECT MANAGER		
DESIGNED BY	TR	
DRAWN BY	JC	
CHECKED BY	TR	
DATE	01/21/2021	
PROJECT NUMBER	1126	
ISSUE	DATE	DESCRIPTION
0	01/21/2021	CONFORMED CONTRACT DRAWINGS




STATE OF TEXAS  
THOMAS W. ROHLACK  
86365  
LICENSED PROFESSIONAL ENGINEER  
01/21/2021



CITY OF AUSTIN  
FOUNDED 1839

ULLRICH WTP  
LOW SERVICE PUMP STATION  
ELECTRICAL FEED RENEWAL

LSPS SWITCHGEAR ENCLOSURE & EQUIPMENT  
SECTIONS & DETAILS



0 1" 2"

FILENAME	1126WTRRL02.dwg
SCALE	N.T.S.

SHEET	43 of 350
C10-501	



CADD FILE: \\CAS-DATASERVER\WATER\ACTIVE PROJECTS\COA W & WW LARGE & SMALL SCALE FACILITIES\HULLRICH LSPS SWITCHGEAR ENCLOSURE PROJECT\3.0 WORK PRODUCTS\HULLRICH LSPS SWITCHGEAR ENCLOSURE PROJECT\1.15.2021 2.21.49 PM BY: JANE FU CTD FILE: CAS.CTB



0 01/21/2021 CONFORMED CONTRACT DRAWINGS

ISSUE DATE DESCRIPTION

PROJECT MANAGER

DESIGNED BY TR

DRAWN BY JC

CHECKED BY TR

DATE

PROJECT NUMBER 1126

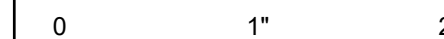


01/21/2021



ULLRICH WTP  
LOW SERVICE PUMP STATION  
ELECTRICAL FEED RENEWAL

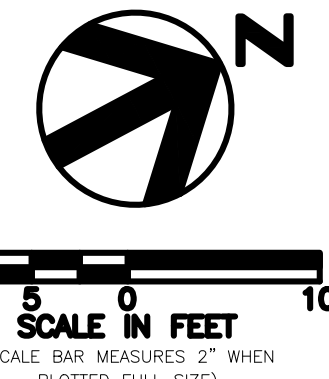
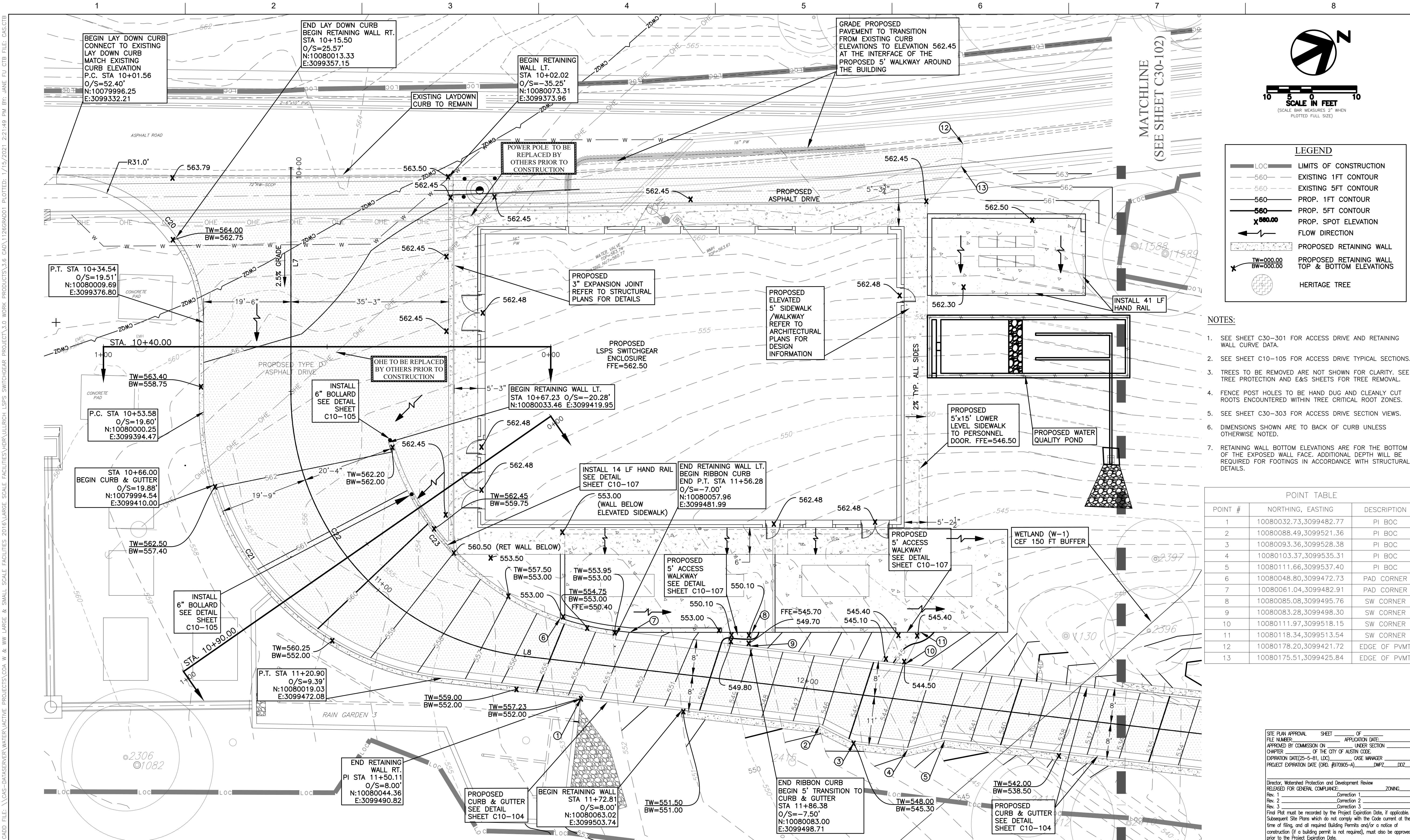
LSPS SWITCHGEAR ENCLOSURE  
AND ACCESS DRIVE  
GRADING PLAN (1 OF 4)



FILENAME 1126GRAD01.dwg  
SCALE 1" = 10'

SHEET 44 of 350  
C30-101

SPC-03-005C (R2)



LEGEND	
	LIMITS OF CONSTRUCTION
	EXISTING 1FT CONTOUR
	EXISTING 5FT CONTOUR
	PROP. 1FT CONTOUR
	PROP. 5FT CONTOUR
	PROP. SPOT ELEVATION
	FLOW DIRECTION
	PROPOSED RETAINING WALL
	PROPOSED RETAINING WALL TOP & BOTTOM ELEVATIONS
	HERITAGE TREE

NOTES:

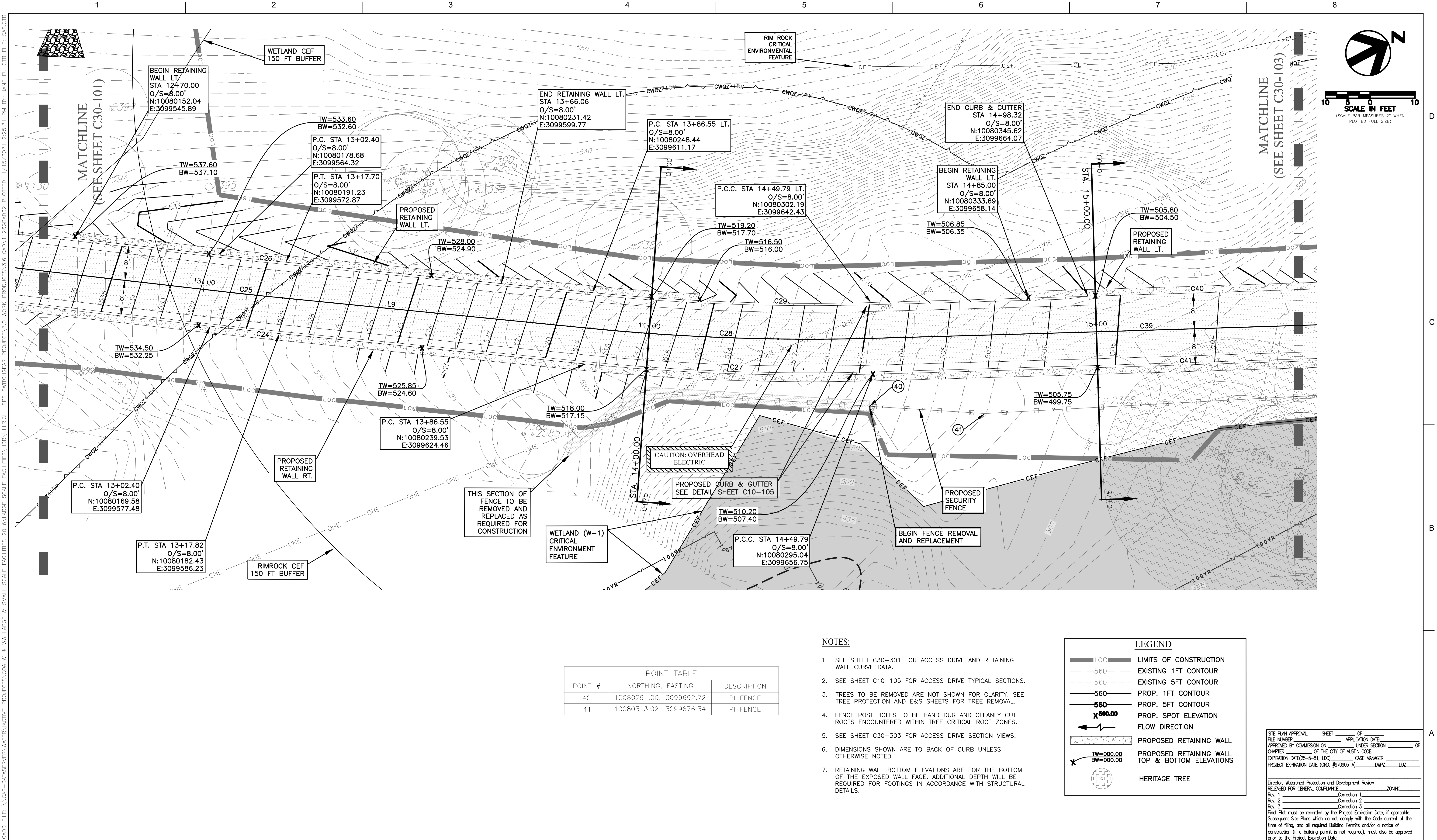
- SEE SHEET C30-301 FOR ACCESS DRIVE AND RETAINING WALL CURVE DATA.
- SEE SHEET C10-105 FOR ACCESS DRIVE TYPICAL SECTIONS.
- TREES TO BE REMOVED ARE NOT SHOWN FOR CLARITY. SEE TREE PROTECTION AND E&S SHEETS FOR TREE REMOVAL.
- FENCE POST HOLES TO BE HAND DUG AND CLEANLY CUT ROOTS ENCOUNTERED WITHIN TREE CRITICAL ROOT ZONES.
- SEE SHEET C30-303 FOR ACCESS DRIVE SECTION VIEWS.
- DIMENSIONS SHOWN ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
- RETAINING WALL BOTTOM ELEVATIONS ARE FOR THE BOTTOM OF THE EXPOSED WALL FACE. ADDITIONAL DEPTH WILL BE REQUIRED FOR FOOTINGS IN ACCORDANCE WITH STRUCTURAL DETAILS.

POINT TABLE		
POINT #	NORTHING, EASTING	DESCRIPTION
1	10080032.73, 3099482.77	PI BOC
2	10080088.49, 3099521.36	PI BOC
3	10080093.36, 3099528.38	PI BOC
4	10080103.37, 3099535.31	PI BOC
5	10080111.66, 3099537.40	PI BOC
6	10080048.80, 3099472.73	PAD CORNER
7	10080061.04, 3099482.91	PAD CORNER
8	10080085.08, 3099495.76	SW CORNER
9	10080083.28, 3099498.30	SW CORNER
10	10080111.97, 3099518.15	SW CORNER
11	10080118.34, 3099513.54	SW CORNER
12	10080178.20, 3099421.72	EDGE OF PVMT
13	10080175.51, 3099425.84	EDGE OF PVMT

SITE PLAN APPROVAL	SHEET	OF
FILE NUMBER	APPLICATION DATE	
APPROVED BY COMMISSION ON	UNDER SECTION	OF
CHAPTER	OF THE CITY OF AUSTIN CODE	
EXPIRATION DATE(25-5-81, LDC)	CASE MANAGER	
PROJECT EXPIRATION DATE (ORD. #97095-A)	DWP2	D02
Director, Watershed Protection and Development Review		
RELEASED FOR GENERAL COMPLIANCE: ZONING		
Rev. 1	Correction 1	
Rev. 2	Correction 2	
Rev. 3	Correction 3	
Find Plot must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved prior to the Project Expiration Date.		



CADD FILE: \\CAS-DATASERVER\WATER\ACTIVE PROJECTS\COA W & NW LARGE & SMALL SCALE FACILITIES\HRR\ULLRICH LSPS SWITCHGEAR PROJECT\3.6 CAD\1126GRAD02 PLOTTED- 1/15/2021 2:25:21 PM BY: JANE FU CTB FILE: CAS.CTB



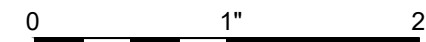
PROJECT MANAGER		
DESIGNED BY	MCM	
DRAWN BY	DCH	
CHECKED BY	MCM	
DATE	01/21/2021	
PROJECT NUMBER	1126	
ISSUE	DATE	DESCRIPTION
0	01/21/2021	CONFORMED CONTRACT DRAWINGS

PROJECT MANAGER	
DESIGNED BY	MCM
DRAWN BY	DCH
CHECKED BY	MCM
DATE	01/21/2021
PROJECT NUMBER	1126



ULLRICH WTP  
LOW SERVICE PUMP STATION  
ELECTRICAL FEED RENEWAL

LSPS SWITCHGEAR ENCLOSURE  
AND ACCESS DRIVE  
GRADING PLAN (2 OF 4)



FILENAME 1126GRAD02.dwg  
SCALE 1" = 10'

SHEET 45 of 350  
C30-102

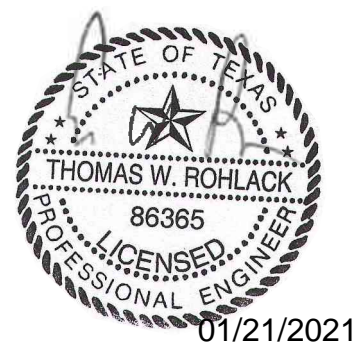


CADD FILE: \\CAS-DATASERVER\WATER\ACTIVE PROJECTS\COA W & WM LARGE SCALE FACILITIES\HULLRICH LSPS SWITCHGEAR PROJECT\3.0 WORK PRODUCTS\3.6 CADD\1126GRAD03 PLOTTED: 1/15/2021 2:29:23 PM BY: JANE FU CTB FILE: CAS.CTB

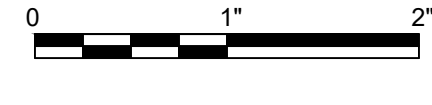


0	01/21/2021	CONFORMED CONTRACT DRAWINGS
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	
DESIGNED BY	MCM
DRAWN BY	DCH
CHECKED BY	MCM
DATE	
PROJECT NUMBER	1126

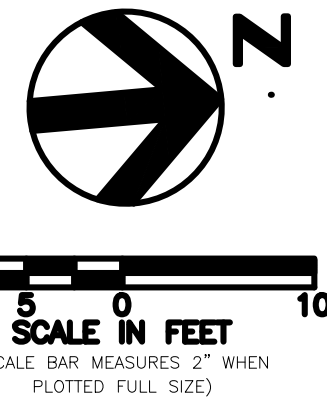
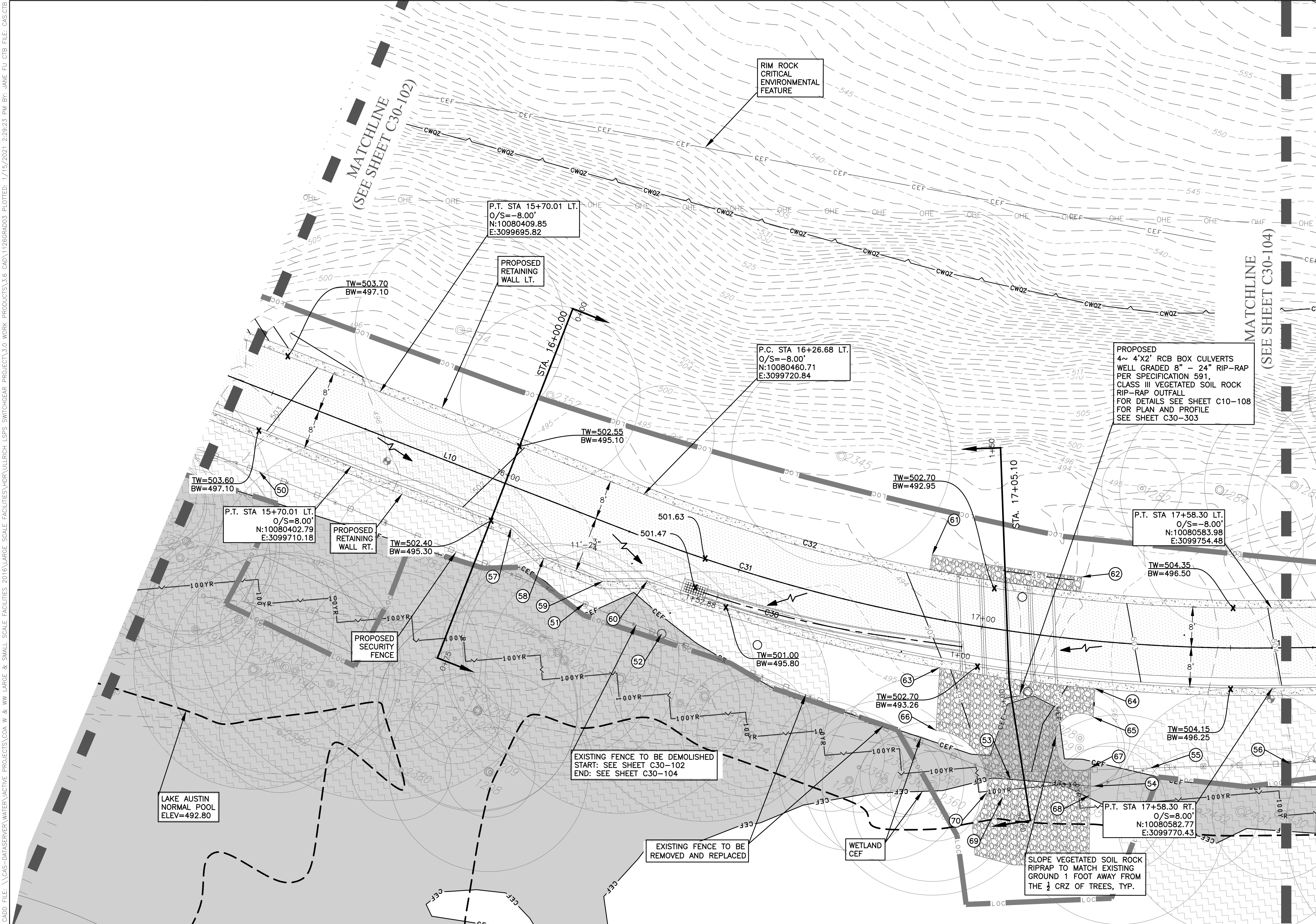


ULLRICH WTP  
LOW SERVICE PUMP STATION  
ELECTRICAL FEED RENEWAL



FILENAME | 1126GRAD03.dwg  
SCALE | 1" = 10'

SHEET | 46 of 350  
C30-103



LEGEND	
LOC	LIMITS OF CONSTRUCTION
560	EXISTING 1FT CONTOUR
560	EXISTING 5FT CONTOUR
560	PROP. 1FT CONTOUR
560	PROP. 5FT CONTOUR
x500.00	PROP. SPOT ELEVATION
←	FLOW DIRECTION
	PROPOSED RETAINING WALL
TW=000.00 BW=000.00	PROPOSED RETAINING WALL TOP & BOTTOM ELEVATIONS
	HERITAGE TREE

- NOTES:
- SEE SHEET C30-301 FOR ACCESS DRIVE AND RETAINING WALL CURVE DATA.
  - SEE SHEET C10-105 FOR ACCESS DRIVE TYPICAL SECTIONS.
  - TREES TO BE REMOVED ARE NOT SHOWN FOR CLARITY. SEE TREE PROTECTION AND E&S SHEETS FOR TREE REMOVAL.
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  - SEE SHEET C30-303 FOR ACCESS DRIVE SECTION VIEWS.
  - DIMENSIONS SHOWN ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
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POINT TABLE		
POINT #	NORTHING, EASTING	DESCRIPTION
50	10080384.38, 3099709.62	PI FENCE
51	10080446.91, 3099741.61	PI FENCE
52	10080461.85, 3099748.98	PI FENCE
53	10080528.90, 3099784.11	PI FENCE
54	10080545.44, 3099786.91	PI FENCE
55	10080557.02, 3099784.28	PI FENCE
56	10080584.89, 3099785.84	PI FENCE
57	10080433.64, 3099725.35	PI BOC
58	10080439.60, 3099731.91	PI BOC
59	10080450.99, 3099737.49	PI BOC
60	10080459.89, 3099738.19	PI BOC
61	10080517.22, 3099737.89	RIP RAP CORNER
62	10080456.69, 3099744.97	RIP RAP CORNER
63	10080516.74, 3099760.60	RIP RAP CORNER
64	10080547.33, 3099767.46	RIP RAP CORNER
65	10080546.53, 3099773.13	RIP RAP CORNER
66	10080514.90, 3099733.05	RIP RAP CORNER
67	10080545.12, 3099783.16	RIP RAP CORNER
68	10080544.34, 3099788.75	RIP RAP CORNER
69	10080527.04, 3099787.50	RIP RAP CORNER
70	10080523.91, 3099786.35	RAP RAP CORNER

SITE PLAN APPROVAL SHEET OF  
FILE NUMBER \_\_\_\_\_ APPLICATION DATE: \_\_\_\_\_  
APPROVED BY COMMISSION ON \_\_\_\_\_ UNDER SECTION \_\_\_\_\_ OF  
CHAPTER \_\_\_\_\_ OF THE CITY OF AUSTIN CODE  
EXPIRATION DATE(25-5-81, LDC) \_\_\_\_\_ CASE MANAGER \_\_\_\_\_  
PROJECT EXPIRATION DATE (ORD. #970905-A) \_\_\_\_\_ DWPZ DOZ \_\_\_\_\_

Director, Watershed Protection and Development Review  
RELEASED FOR GENERAL COMPLIANCE: \_\_\_\_\_ ZONING: \_\_\_\_\_  
Rev. 1 \_\_\_\_\_ Correction 1 \_\_\_\_\_  
Rev. 2 \_\_\_\_\_ Correction 2 \_\_\_\_\_  
Rev. 3 \_\_\_\_\_ Correction 3 \_\_\_\_\_  
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construction (if a building permit is not required), must also be approved  
prior to the Project Expiration Date.

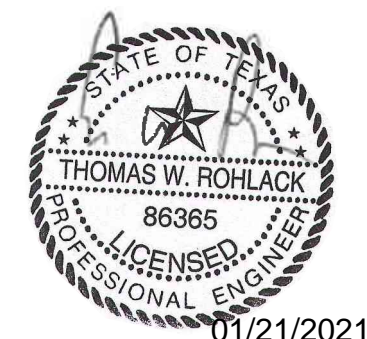


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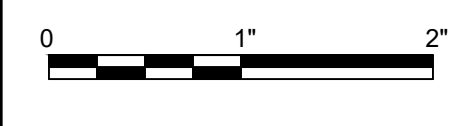


PROJECT MANAGER		
DESIGNED BY	TR	
DRAWN BY	JC	
CHECKED BY	TR	
DATE		
PROJECT NUMBER	1126	
0	01/21/2021	CONFORMED CONTRACT DRAWINGS
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	
DESIGNED BY	TR
DRAWN BY	JC
CHECKED BY	TR
DATE	
PROJECT NUMBER	1126

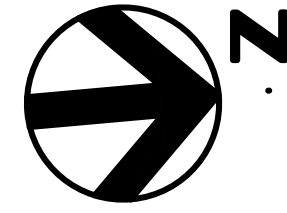
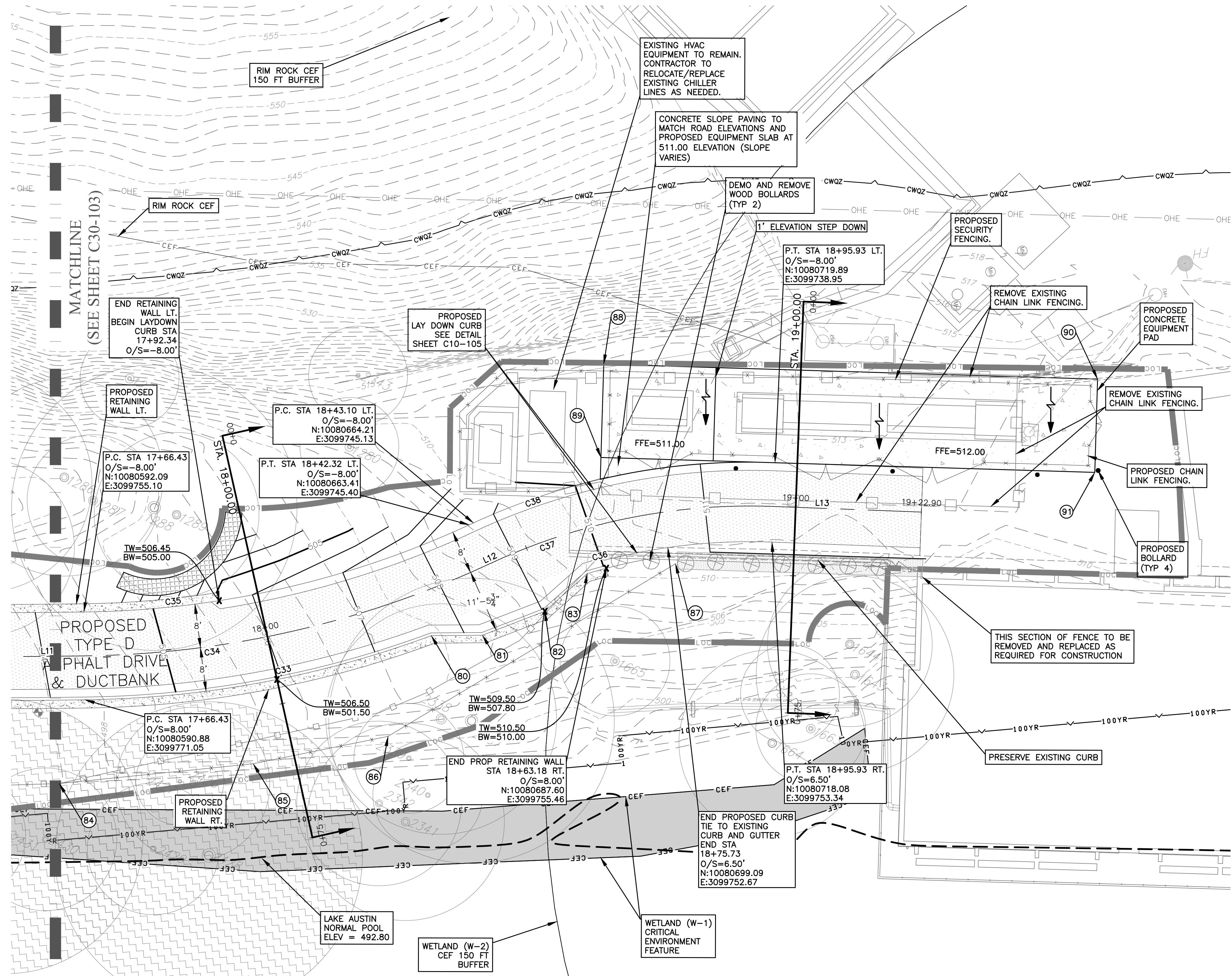


ULLRICH WTP  
LOW SERVICE PUMP STATION  
ELECTRICAL FEED RENEWAL



FILENAME 1126GRAD04.dwg  
SCALE 1" = 10'

SHEET 47 of 350  
C30-104



SCALE IN FEET  
10 5 0 5 10  
(SCALE BAR MEASURES 2" WHEN PLOTTED FULL SIZE)

LEGEND

- LOC LIMITS OF CONSTRUCTION
- 560- EXISTING 1FT CONTOUR
- 560- EXISTING 5FT CONTOUR
- 560- PROP. 1FT CONTOUR
- 560- PROP. 5FT CONTOUR
- x560.00 PROP. SPOT ELEVATION
- Flow Direction
- PROPOSED RETAINING WALL
- TW=000.00 BW=000.00 PROPOSED RETAINING WALL TOP & BOTTOM ELEVATIONS
- HERITAGE TREE

NOTES:

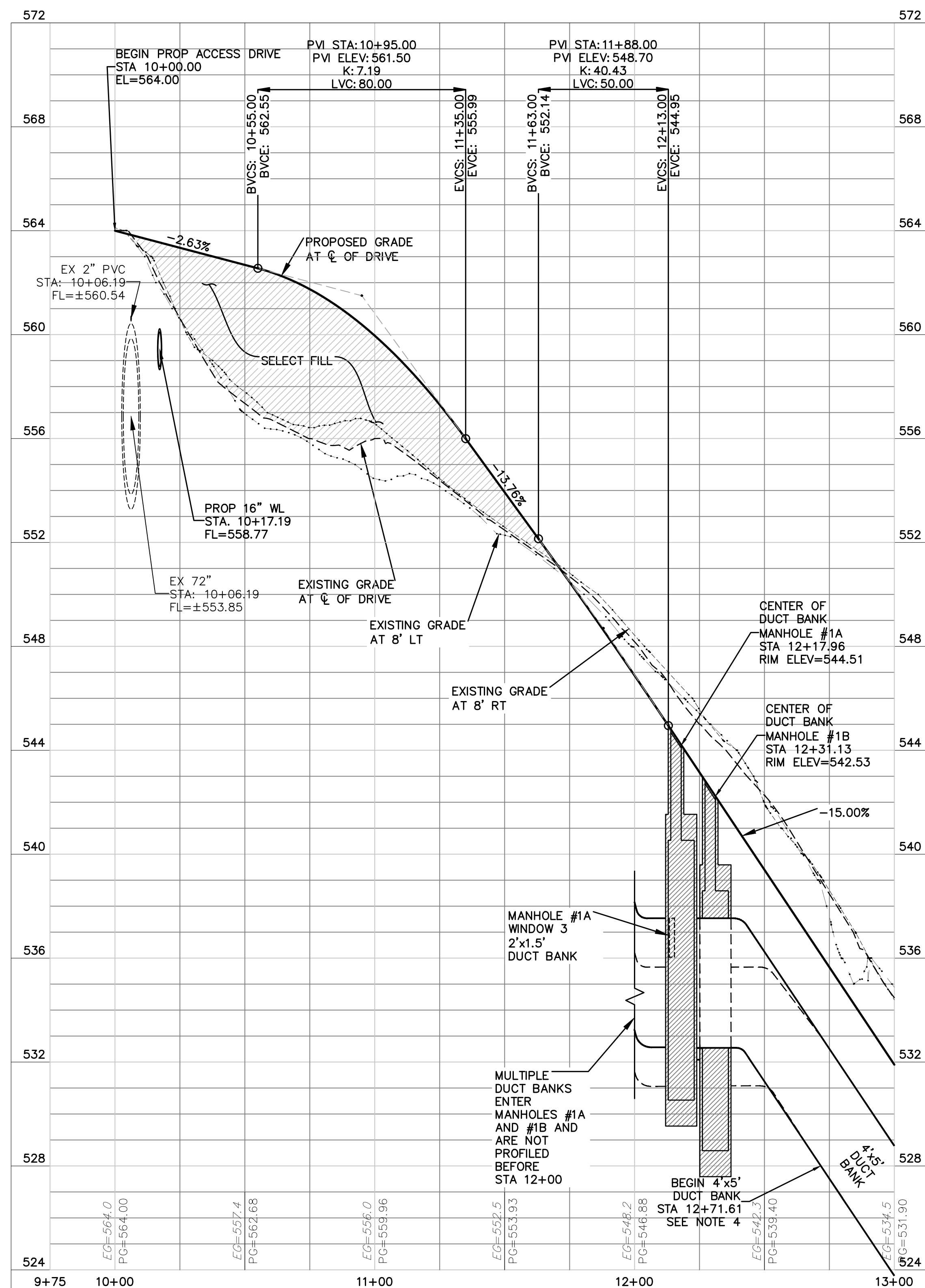
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POINT TABLE		
POINT #	NORTHING, EASTING	DESCRIPTION
80	10080654.76, 3099764.91	PI BOC
81	10080664.05, 3099765.64	PI BOC
82	10080675.75, 3099762.28	PI BOC
83	10080684.05, 3099756.12	PI BOC
84	10080584.89, 3099785.84	PI FENCE
85	10080620.40, 3099785.33	PI FENCE
86	10080645.31, 3099782.50	PI FENCE
87	10080700.21, 3099755.73	PI FENCE
88	10080690.37, 3099718.38	PAD CORNER
89	10080688.37, 3099735.26	PAD CORNER
90	10080779.74, 3099728.93	PAD CORNER
91	10080777.75, 3099745.81	PAD CORNER

SITE PLAN APPROVAL SHEET OF  
FILE NUMBER: APPLICATION DATE: \_\_\_\_\_  
APPROVED BY COMMISSION ON: UNDER SECTION \_\_\_\_\_ OF  
CHAPTER \_\_\_\_\_ OF THE CITY OF AUSTIN CODE.  
EXPIRATION DATE(25-5-81, LDC): CASE MANAGER \_\_\_\_\_  
PROJECT EXPIRATION DATE (ORD. #970905-A) DWP2 DOZ \_\_\_\_\_

Director, Watershed Protection and Development Review  
RELEASED FOR GENERAL COMPLIANCE: \_\_\_\_\_ ZONING: \_\_\_\_\_  
Rev. 1 \_\_\_\_\_ Correction 1 \_\_\_\_\_  
Rev. 2 \_\_\_\_\_ Correction 2 \_\_\_\_\_  
Rev. 3 \_\_\_\_\_ Correction 3 \_\_\_\_\_  
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construction (if a building permit is not required), must also be approved  
prior to the Project Expiration Date.





SITE PLAN APPROVAL \_\_\_\_\_ OF \_\_\_\_\_  
 FILE NUMBER \_\_\_\_\_ APPLICATION DATE: \_\_\_\_\_  
 APPROVED BY (C-5-S-1) \_\_\_\_\_ UNDER SECTION \_\_\_\_\_ OF \_\_\_\_\_  
 CHAPTER \_\_\_\_\_ OF THE CITY OF ALUSTON CODE  
 EXPIRATION DATE (25-5-81) UDC \_\_\_\_\_ DSE MANAGER \_\_\_\_\_  
 PROJECT EXPIRATION DATE (ORD. #70905-A) \_\_\_\_\_ DWP7 \_\_\_\_\_ DDZ \_\_\_\_\_

Director, Watershed Protection and Development Review  
 RELEASED FOR GENERAL COMMUNICE: \_\_\_\_\_ ZONING: \_\_\_\_\_

Rev. 1 \_\_\_\_\_ Correction 1 \_\_\_\_\_  
 Rev. 2 \_\_\_\_\_ Correction 2 \_\_\_\_\_  
 Rev. 3 \_\_\_\_\_ Correction 3 \_\_\_\_\_  
 Final Plot must be recorded by the Project Expiration Date, if applicable.  
 Subsequent Site Plans which do not comply with the Code current at the  
 time of filing, and all required Building Permits and/or a notice of  
 construction (if a building permit is not required), must also be approved



<b>PROJECT MANAGER</b>	
<b>DESIGNED BY</b>	TR
<b>DRAWN BY</b>	JC
<b>CHECKED BY</b>	TR
<b>DATE</b>	
<b>PROJECT NUMBER</b>	1126



SHEET 48 of 350  
**C30-301**



CADD FILE: \\CAS-DATASEVER\WATER\ACTIVE PROJECTS\COA W & NW LARGE & SMALL SCALE FACILITIES\ULLRICH LSPS SWITCHGEAR PROJECT\3.0 WORK PRODUCTS\3.6 CAD\1126RDP22.PLOTED: 1/15/2021 2:38:33 PM BY: JANE FU CIB FILE: CAS.CIB



0 01/21/2021 CONFORMED CONTRACT DRAWINGS

ISSUE DATE DESCRIPTION

PROJECT MANAGER

DESIGNED BY TR  
DRAWN BY JC

CHECKED BY TR

DATE

PROJECT NUMBER 1126



01/21/2021



ULLRICH WTP  
LOW SERVICE PUMP STATION  
ELECTRICAL FEED RENEWAL

ACCESS DRIVE AND DUCT BANK  
PLAN & PROFILE (2 OF 2)

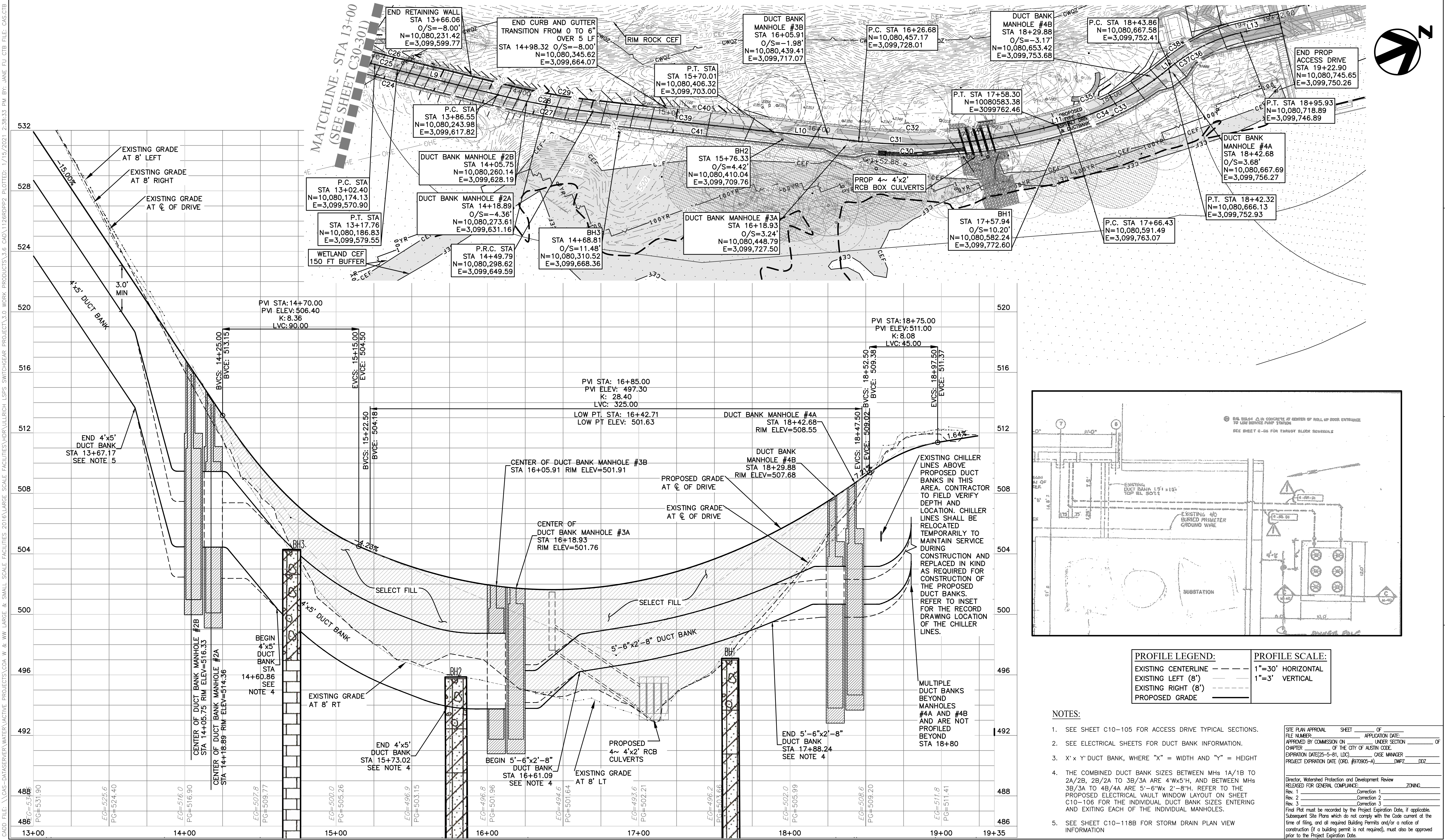


FILENAME 1126RDP2  
SCALE H: 1"=30' V: 1"=3'

SHEET 49 of 350

C30-302

SPC-03-005C (R2)



PROFILE LEGEND:		PROFILE SCALE:	
EXISTING CENTERLINE	---	1"=30' HORIZONTAL	
EXISTING LEFT (8')	---	1"=3' VERTICAL	
EXISTING RIGHT (8')	---		
PROPOSED GRADE	---		

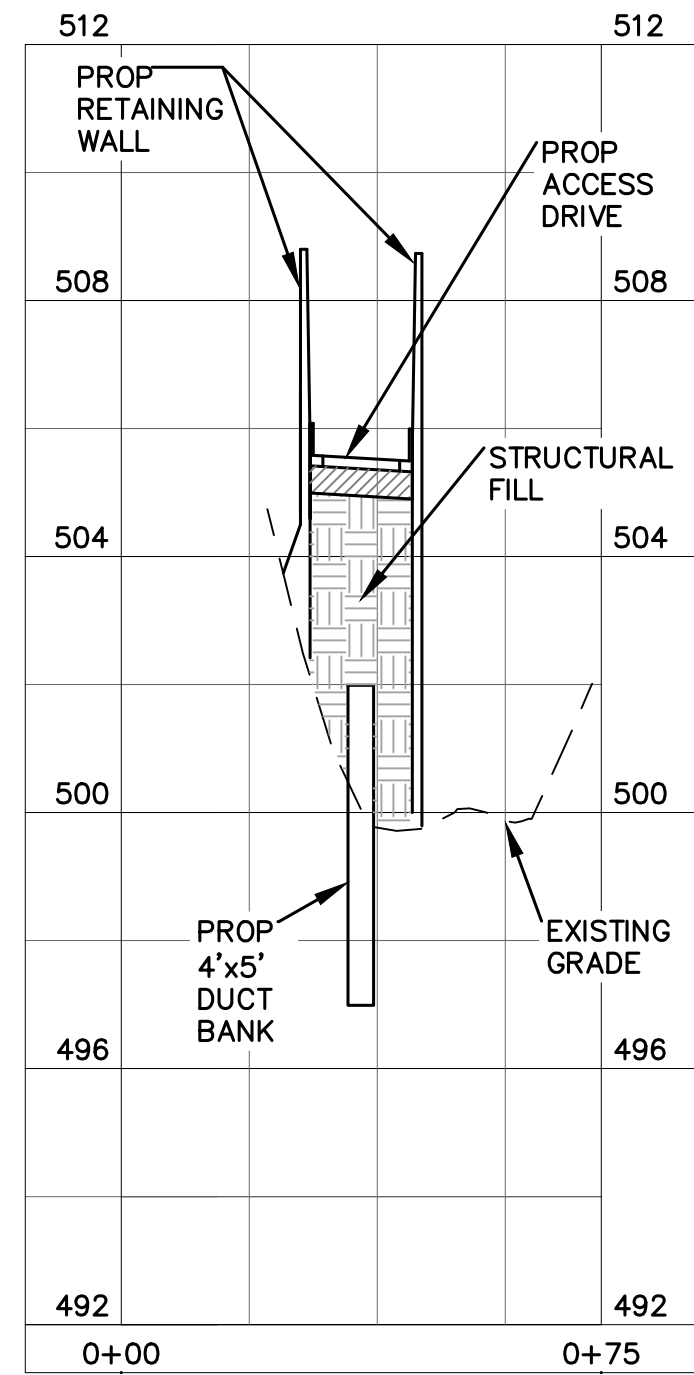
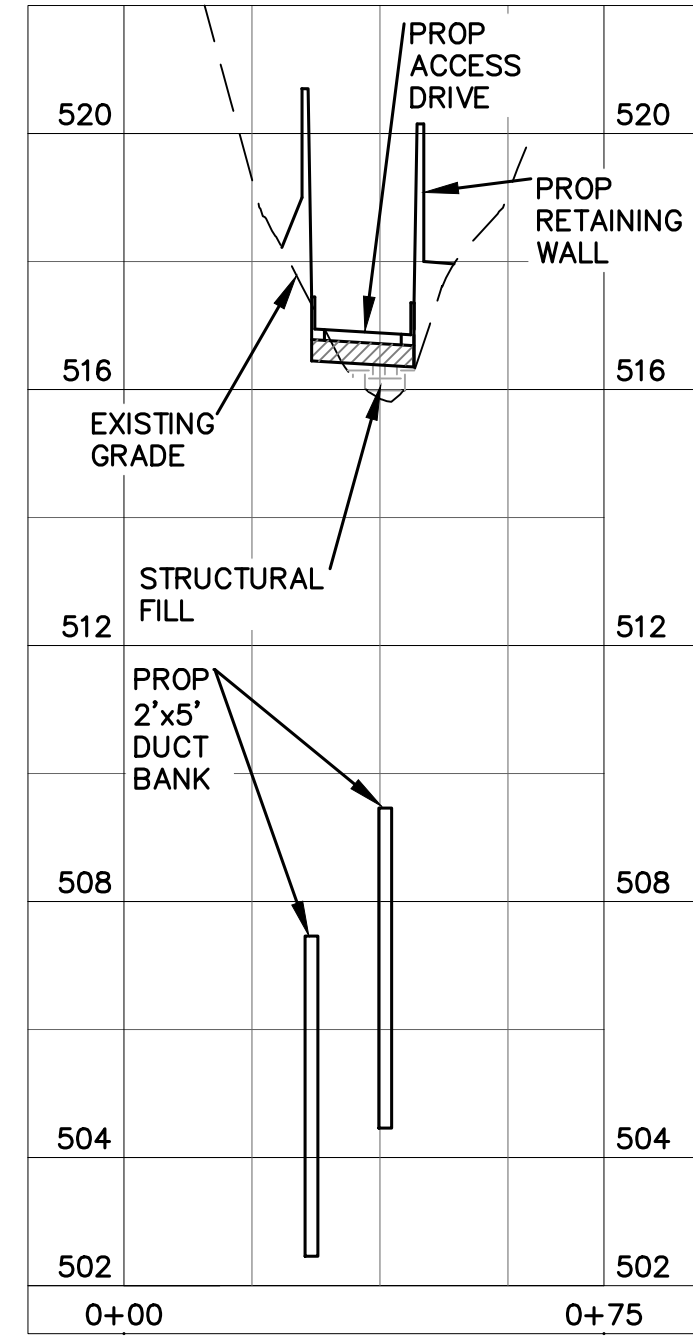
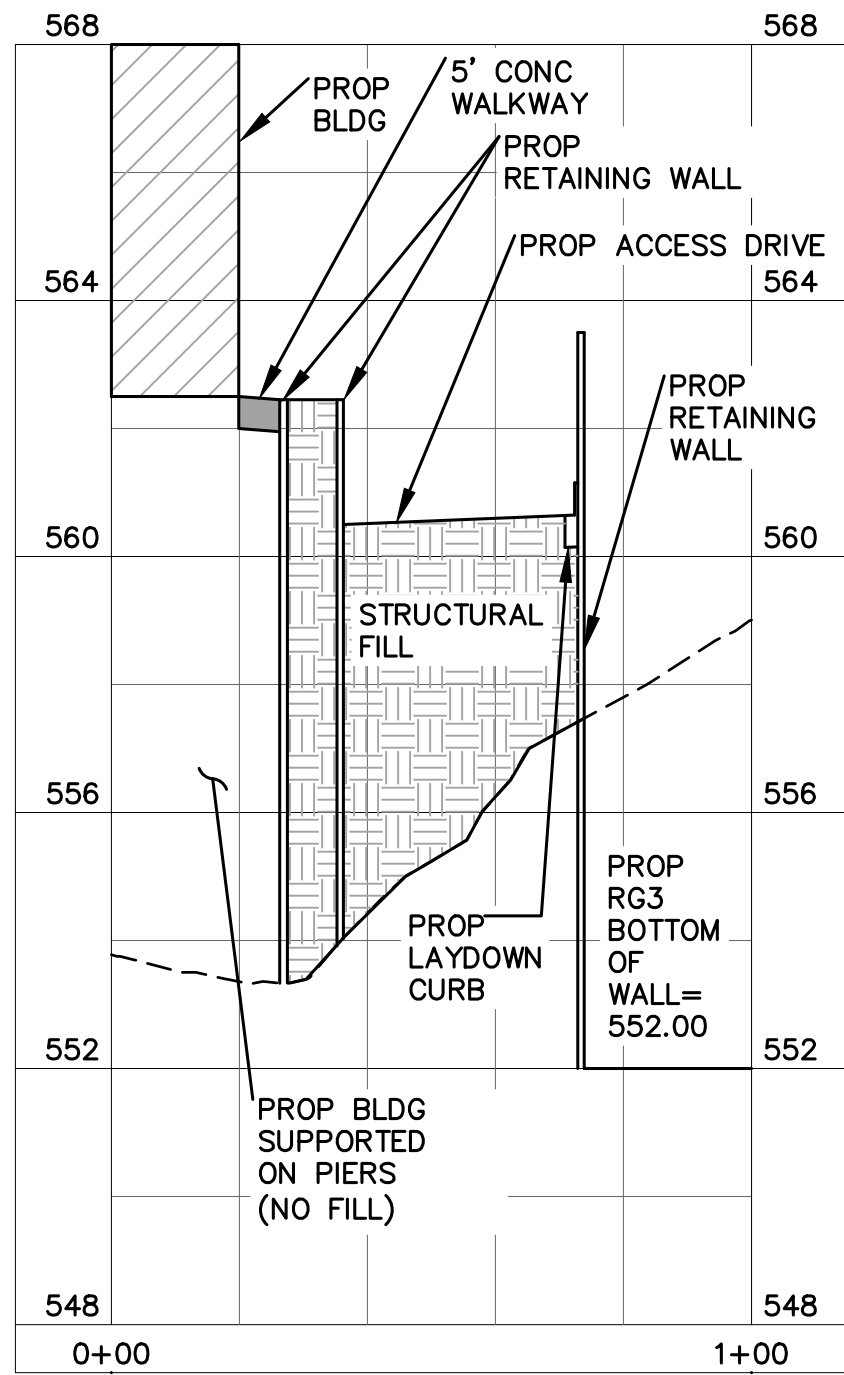
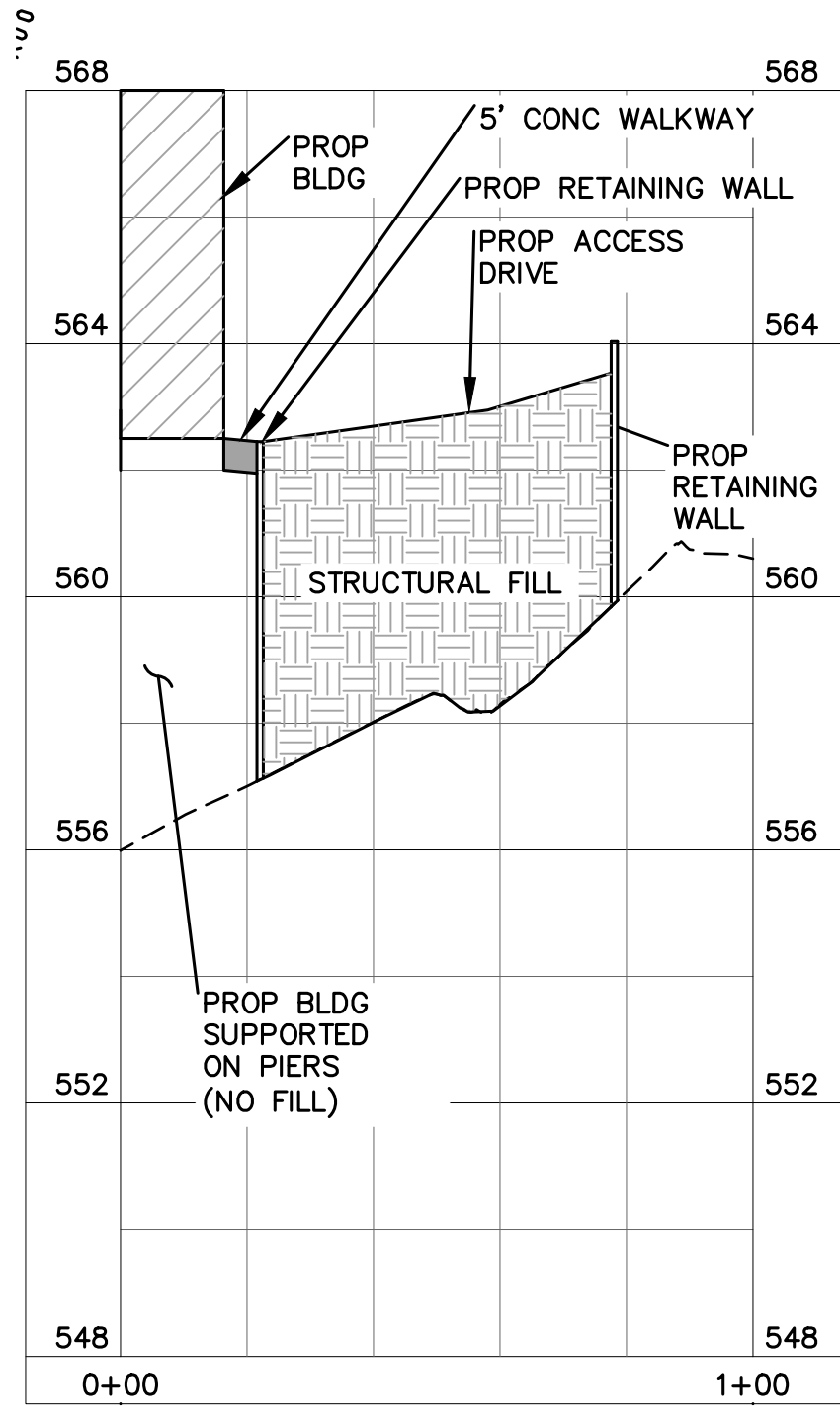
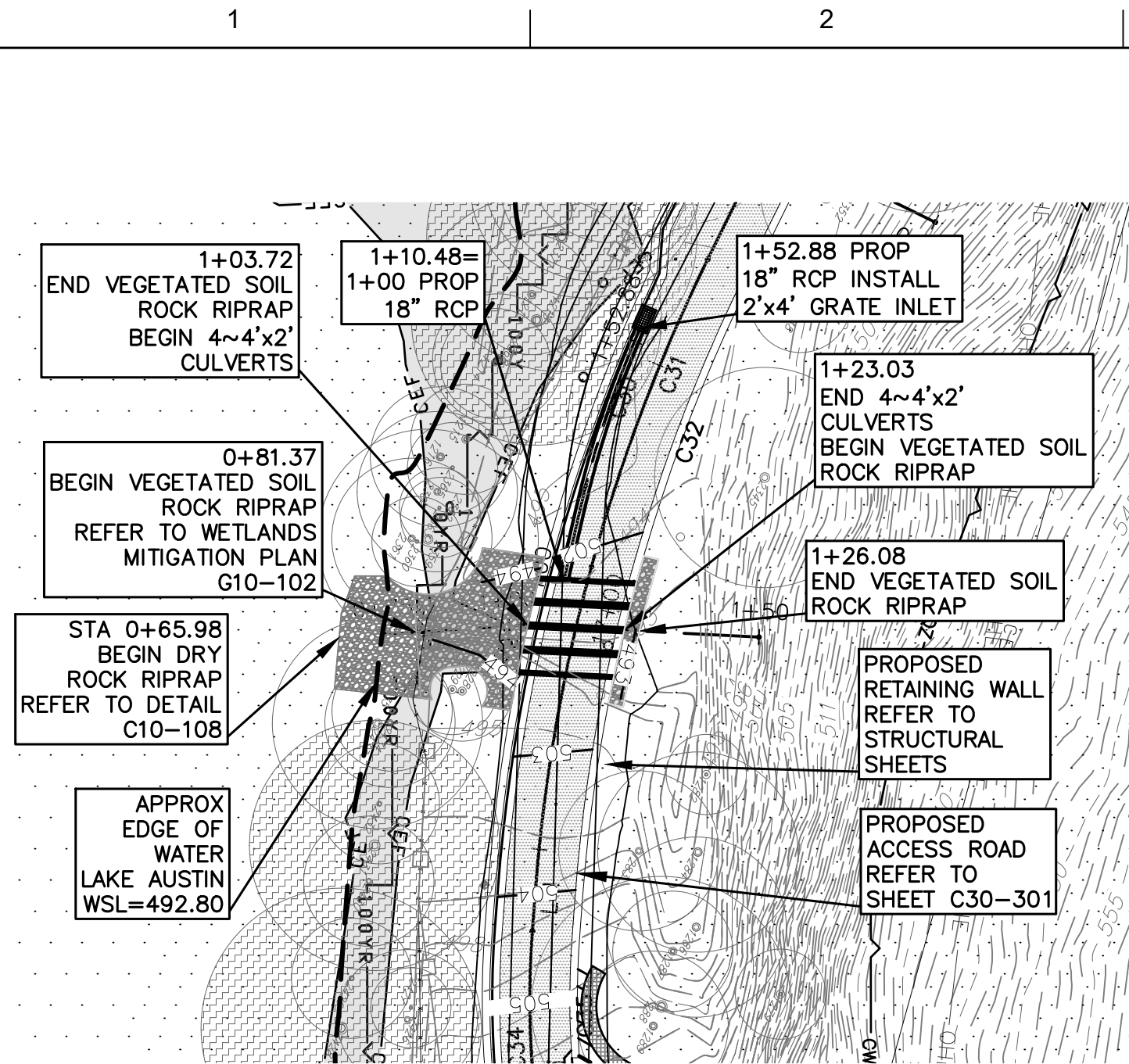
NOTES:

- SEE SHEET C10-105 FOR ACCESS DRIVE TYPICAL SECTIONS.
- SEE ELECTRICAL SHEETS FOR DUCT BANK INFORMATION.
- X' x Y' DUCT BANKS, WHERE "X" = WIDTH AND "Y" = HEIGHT
- THE COMBINED DUCT BANK SIZES BETWEEN MHS 1A/1B TO 2A/2B, 2B/2A TO 3B/3A ARE 4'x5'H, AND BETWEEN MHS 3B/3A TO 4B/4A ARE 5'-6"Wx 2'-8"H. REFER TO THE PROPOSED ELECTRICAL VAULT WINDOW LAYOUT ON SHEET C10-106 FOR THE INDIVIDUAL DUCT BANK SIZES ENTERING AND EXITING EACH OF THE INDIVIDUAL MANHOLES.
- SEE SHEET C10-118B FOR STORM DRAIN PLAN VIEW INFORMATION

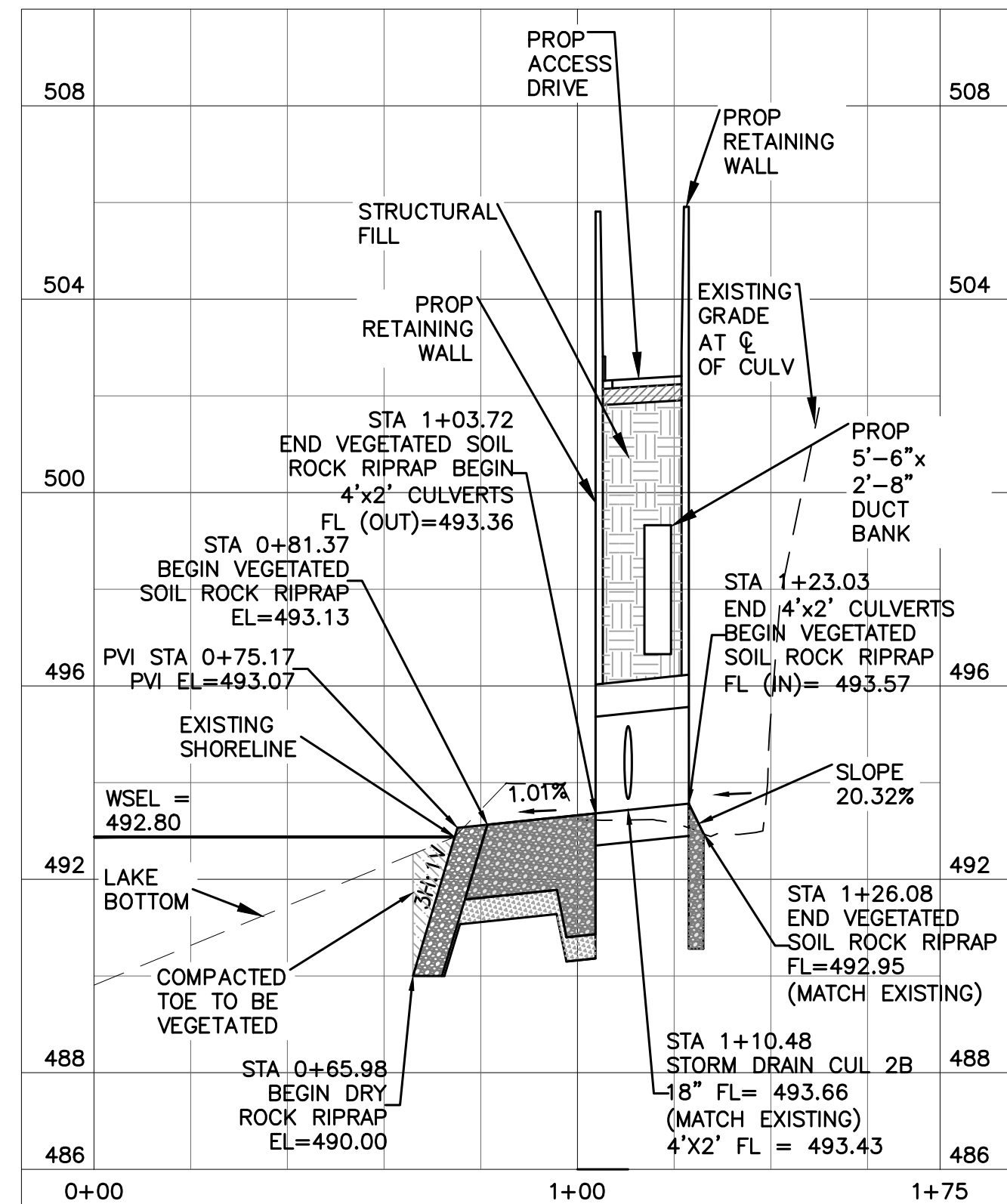
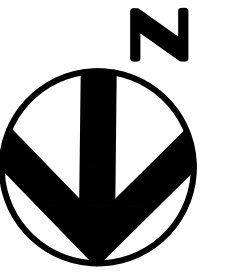
SITE PLAN APPROVAL	SHEET	OF
FILE NUMBER	APPLICATION DATE:	
APPROVED BY COMMISSION ON	UNDER SECTION	OF
CHAPTER	OF THE CITY OF AUSTIN CODE	
EXPIRATION DATE(25-5-81, LDC)	CASE MANAGER	
PROJECT EXPIRATION DATE (ORD. #97095-A)	DWP2	D02
Director, Watershed Protection and Development Review		
RELEASED FOR GENERAL COMPLIANCE: ZONING		
Rev. 1	Correction 1	
Rev. 2	Correction 2	
Rev. 3	Correction 3	
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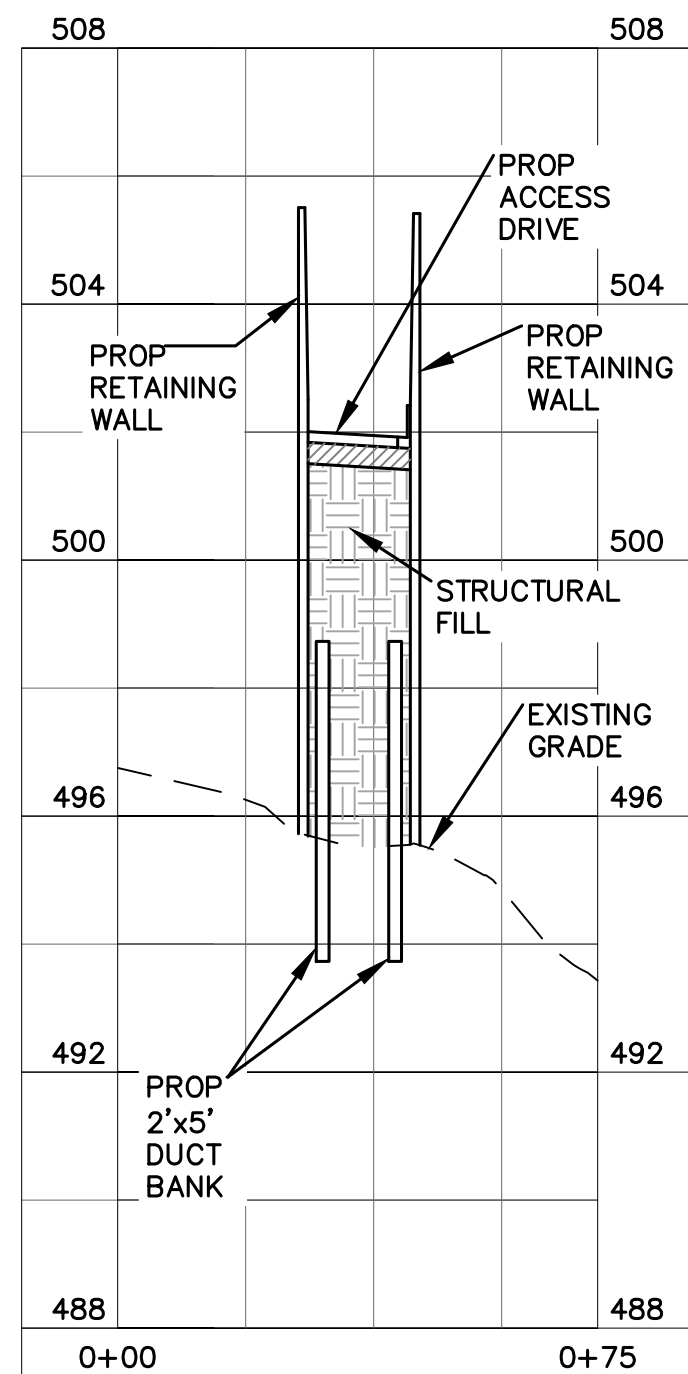
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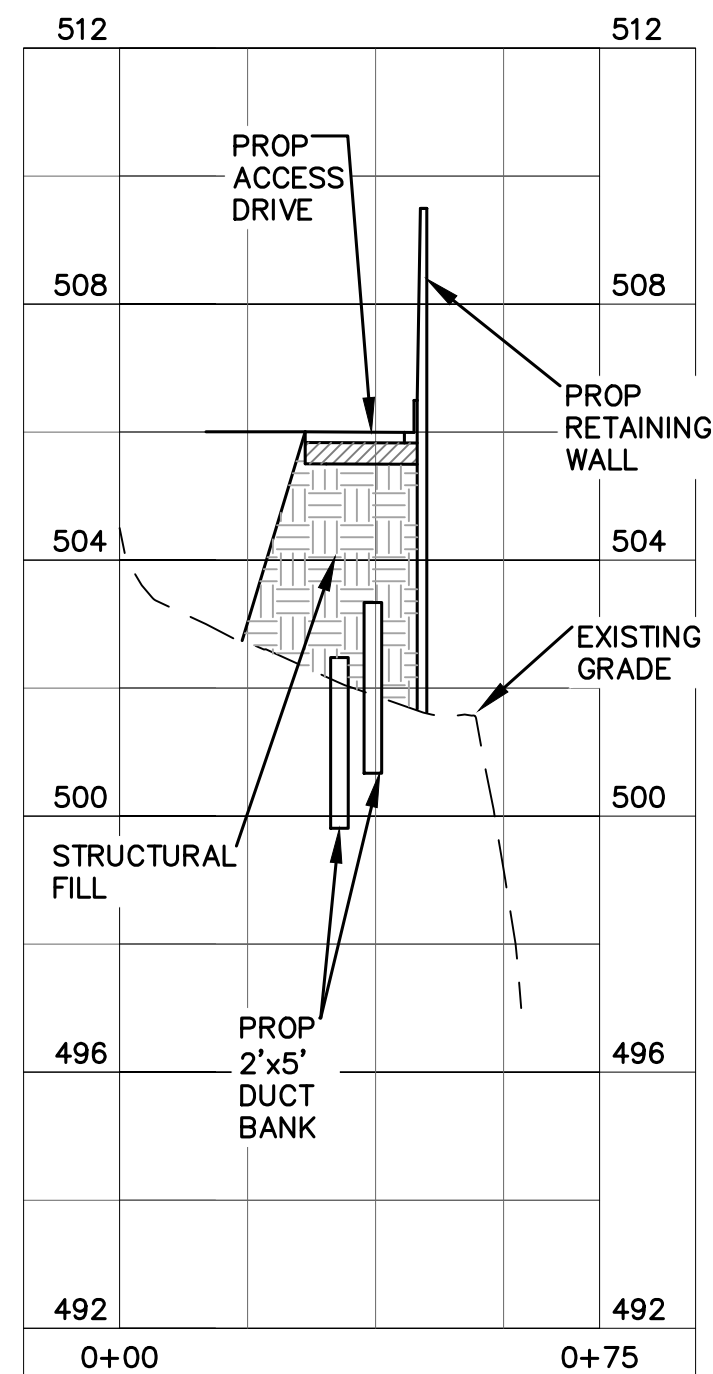
NOTE:  
1: SEE STRUCTURAL SHEETS  
FOR RETAINING WALL  
FOUNDATIONS.



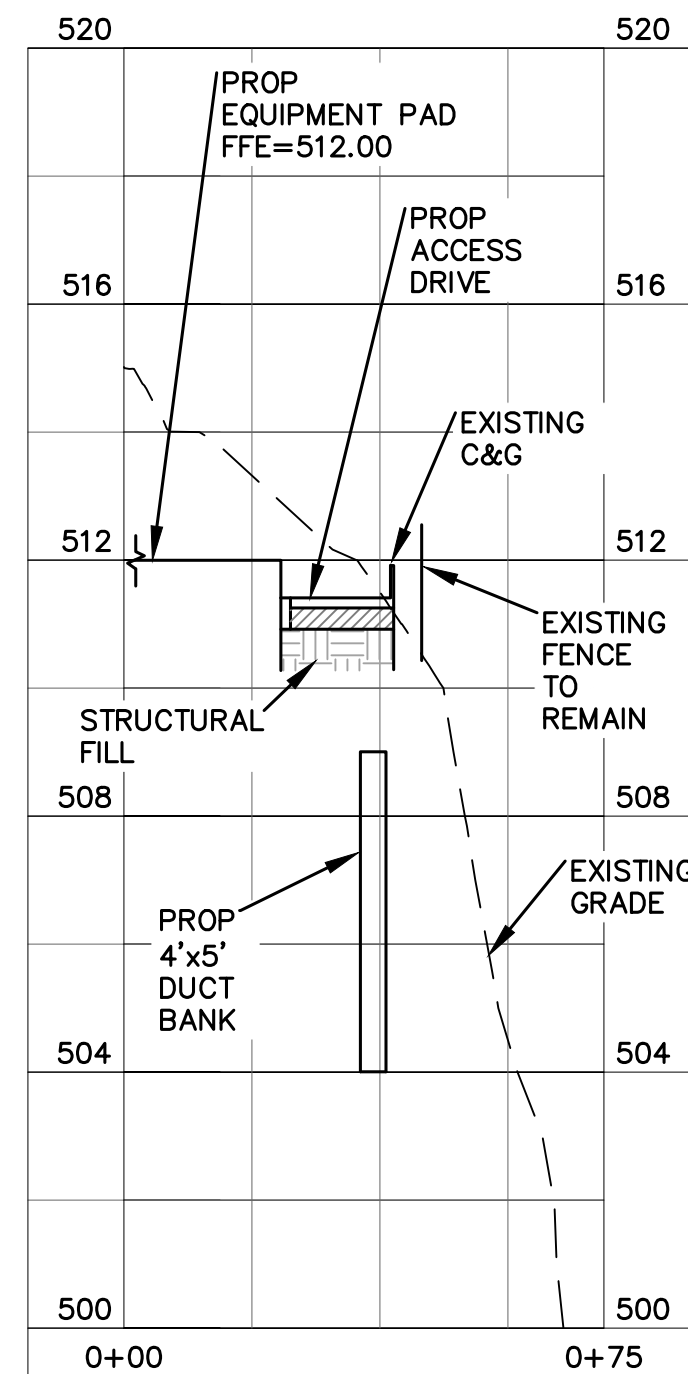
CROSS-SECTION  
STA 17+05.10  
4~ 4'x2'  
CULVERTS



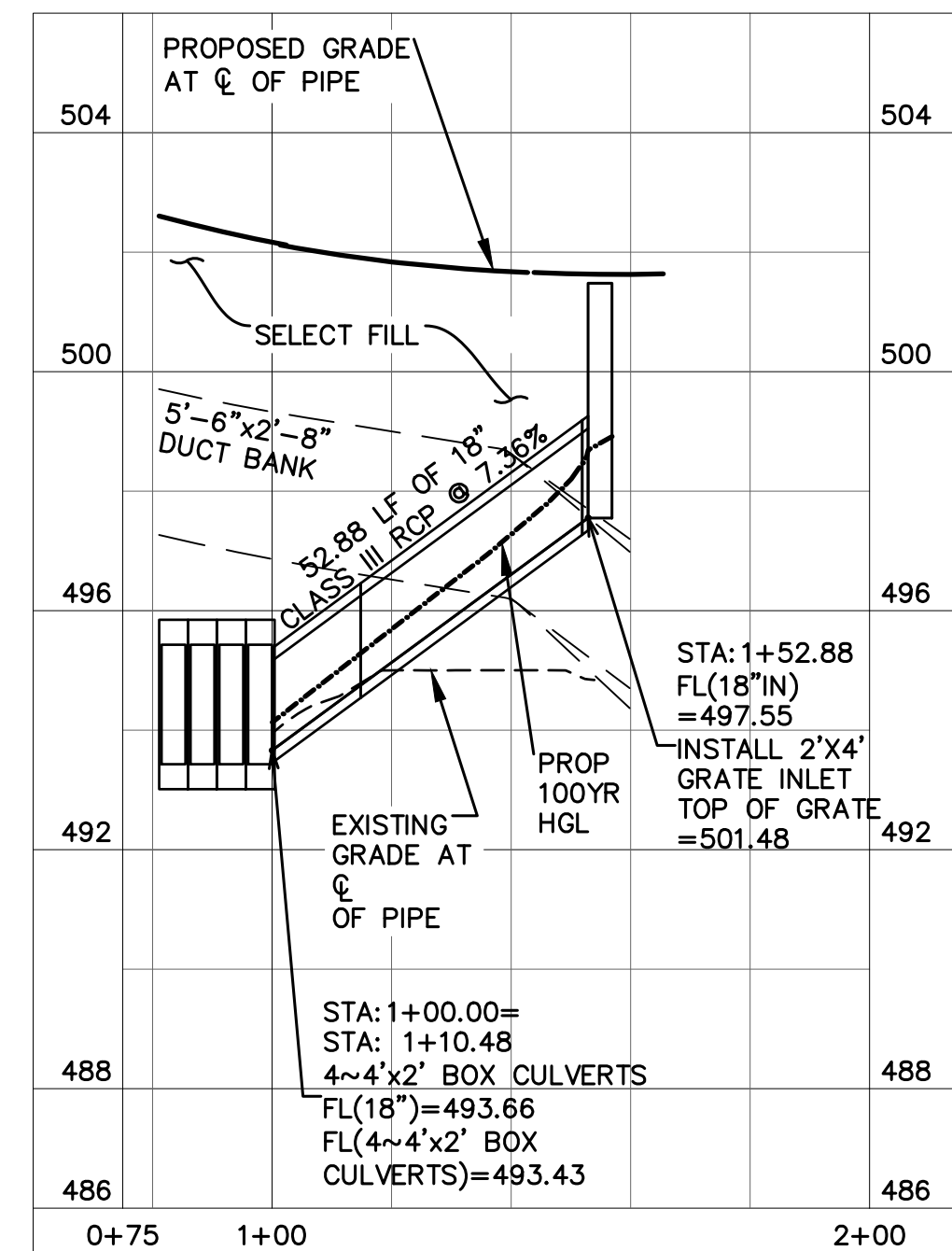
CROSS-SECTION  
STA 16+00



CROSS-SECTION  
STA 18+00



CROSS-SECTION  
STA 19+00



PROFILE  
PROP. 18" RCP

SITE PLAN APPROVAL SHEET \_\_\_\_\_ OF \_\_\_\_\_  
FILE NUMBER \_\_\_\_\_ APPLICATION DATE: \_\_\_\_\_  
APPROVED BY COMMISSION ON \_\_\_\_\_ UNDER SECTION \_\_\_\_\_ OF  
CHAPTER \_\_\_\_\_ OF THE CITY OF AUSTIN CODE.  
EXPIRATION DATE(25-5-81, LDC) \_\_\_\_\_ CASE MANAGER \_\_\_\_\_  
PROJECT EXPIRATION DATE (ORD. #970905-A) \_\_\_\_\_ DWPZ \_\_\_\_\_ DOZ \_\_\_\_\_

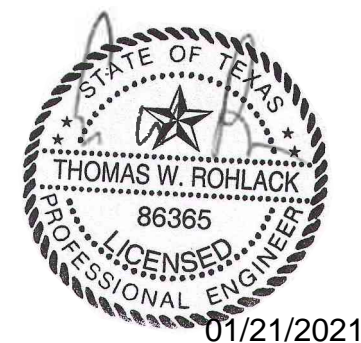
Director, Watershed Protection and Development Review  
RELEASED FOR GENERAL COMPLIANCE: \_\_\_\_\_ ZONING: \_\_\_\_\_  
Rev. 1 \_\_\_\_\_ Correction 1 \_\_\_\_\_  
Rev. 2 \_\_\_\_\_ Correction 2 \_\_\_\_\_  
Rev. 3 \_\_\_\_\_ Correction 3 \_\_\_\_\_  
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Texas P.E. Firm  
Registration No. F-754

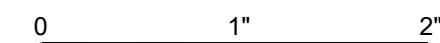
ISSUE	DATE	DESCRIPTION
0	01/21/2021	CONFORMED CONTRACT DRAWINGS

PROJECT MANAGER	
DESIGNED BY	DG
DRAWN BY	DCH
CHECKED BY	DG
DATE	01/21/2021
PROJECT NUMBER	1126



ULLRICH WTP  
LOW SERVICE PUMP STATION  
ELECTRICAL FEED RENEWAL

## BOX CULVERT PLAN & ACCESS ROAD SECTION VIEWS

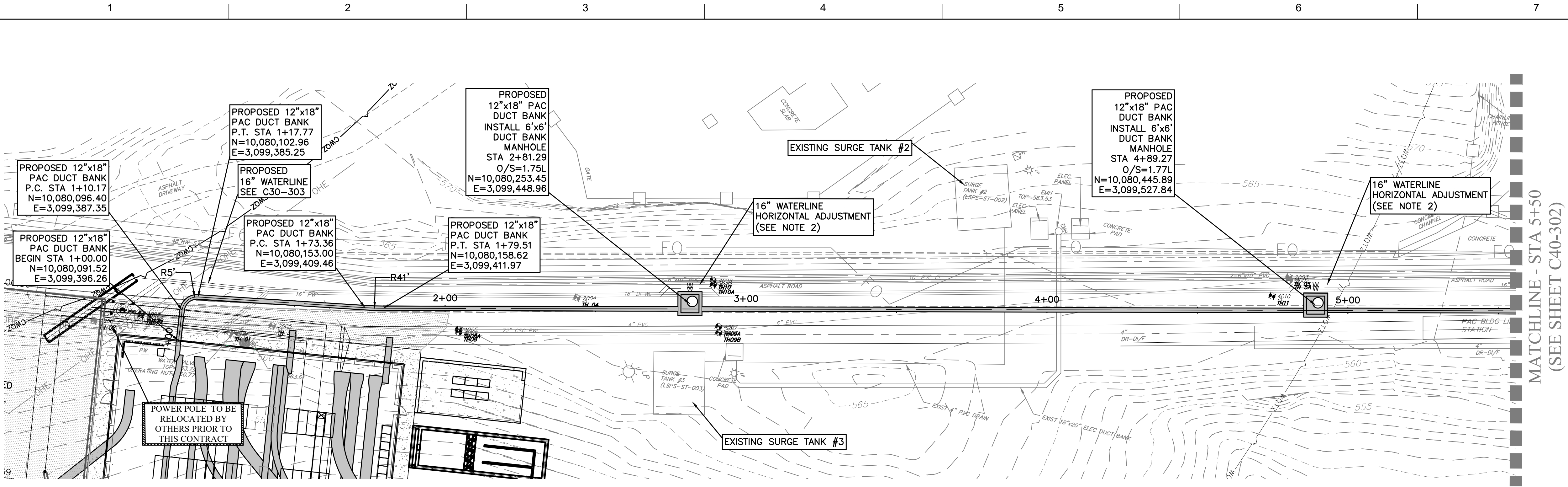


FILENAME | 1126STRPPP01  
SCALE | H: 1"=30' V: 1"=3'

SHEET | 50 of 350  
**C30-303**



CADD FILE: \\CAS-DATASERVER\WATER\ACTIVE PROJECTS\COA W & NW LARGE & SMALL SCALE FACILITIES\2016\LARGE SCALE FACILITIES\HULLRICH LSPS SWITCHGEAR PROJECT\3.0 WORK PRODUCTS\3.6 CADD\126DUCTPP01 PLOTTED: 1/15/2021 2:46:36 PM BY: JANE FU CTD FILE: CAS.CTB



#### NOTES:

- CONSTRUCT MANHOLE RIM AND COVER FLUSH WITH PAVEMENT SURFACE.
- IT WILL BE NECESSARY FOR THE CONTRACTOR TO RELOCATE THE 16-INCH WATERLINE AT THE LOCATION OF THE TWO PROPOSED ELECTRICAL MANHOLES. REFER TO THE DETAIL ON SHEET C40-302.
- THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO DUCT BANK AND MANHOLE INSTALLATION.

#### Utility Criteria Manual Waiver Requests

- SECTION 2.9.2 WATER SYSTEMS, B. MAINS, 4. MINIMUM DEPTH OF COVER (APPLICABLE SHEET: C10-301)
  - THIS SECTION REQUIRES A MINIMUM DEPTH OF COVER OF 48 INCHES FOR WATER MAINS
  - AT THE TWO LOCATIONS INDICATED ON THIS SHEET WE WILL BE TYING INTO THE EXISTING MAIN ON EITHER SIDE OF THE MANHOLES WHERE HORIZONTAL ADJUSTMENTS TO THE WATERLINE WILL BE NEEDED. SUE INVESTIGATION DETERMINED THAT THE LINE IS LESS THAN 48 INCHES AND WE HAVE NO CONTROL OVER THAT.
  - THE DEPTH OF THE EXISTING LINES ARE APPROXIMATELY 3.5 TO 3.9 FEET OF COVER. WE PROPOSE NO DESIGN ALTERNATIVE AS THE /PROPOSED LINE IS DUCTILE IRON AS IS THE EXISTING LINE WHICH HAS NOT BEEN A PROBLEM SINCE ITS INSTALLATION IN 1989.
- SECTION 2.9.2 WATER SYSTEMS, B. MAINS, 2. MINIMUM HORIZONTAL SEPARATION DISTANCES (APPLICABLE SHEET: C10-301, C40-301, C40-302)
  - THIS SECTION REQUIRES A MINIMUM HORIZONTAL SEPARATION DISTANCE FOR WATER MAINS TO OTHER UTILITIES AND STRUCTURES.
  - DUE TO THE CONGESTION OF EXISTING FACILITIES IN THE AREA OF THE PROPOSED 16-INCH WATERLINE, WHERE IT WILL BE NECESSARY TO RE-ROUTE THE LINES PAST THE PROPOSED PAC DUCT BANK MANHOLES, IT WILL BE NECESSARY FOR THE WATERLINE TO BE INSTALLED WITH APPROXIMATELY 1 FOOT OF CLEARANCE OF THE MANHOLES AND APPROXIMATELY 1 TO 2 FEET AWAY FROM THE ADJACENT 6"x10" DUAL CONTAINMENT CHLORINE SOLUTION LINES.
  - AGAIN, WE PROPOSE TO UTILIZE CLSM FOR THE PROPOSED WATERLINE WHERE IT IS INSTALLED BETWEEN THE MANHOLE AND THE ADJACENT CHLORINE SOLUTION LINES.

AWPE APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_

SITE PLAN APPROVAL	SHEET _____ OF _____
FILE NUMBER	APPLICATION DATE: _____
APPROVED BY COMMISSION ON _____	UNDER SECTION _____ OF
CHAPTER _____	OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE(25-5-81, LDC)	CASE MANAGER _____
PROJECT EXPIRATION DATE (ORD. #970905-A)	DWP? _____ DOZ _____

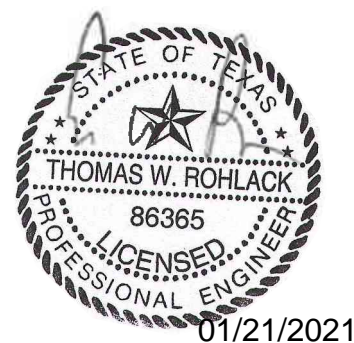
Director, Watershed Protection and Development Review	RELEASED FOR GENERAL COMPLIANCE: _____ ZONING _____
Rev. 1 _____	Correction 1 _____
Rev. 2 _____	Correction 2 _____
Rev. 3 _____	Correction 3 _____

Find Plot must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved prior to the Project Expiration Date.



ISSUE	DATE	DESCRIPTION
0	01/21/2021	CONFORMED CONTRACT DRAWINGS

PROJECT MANAGER	DG
DESIGNED BY	DCH
DRAWN BY	
CHECKED BY	DG
DATE	
PROJECT NUMBER	1126



ULLRICH WTP  
LOW SERVICE PUMP STATION  
ELECTRICAL FEED RENEWAL

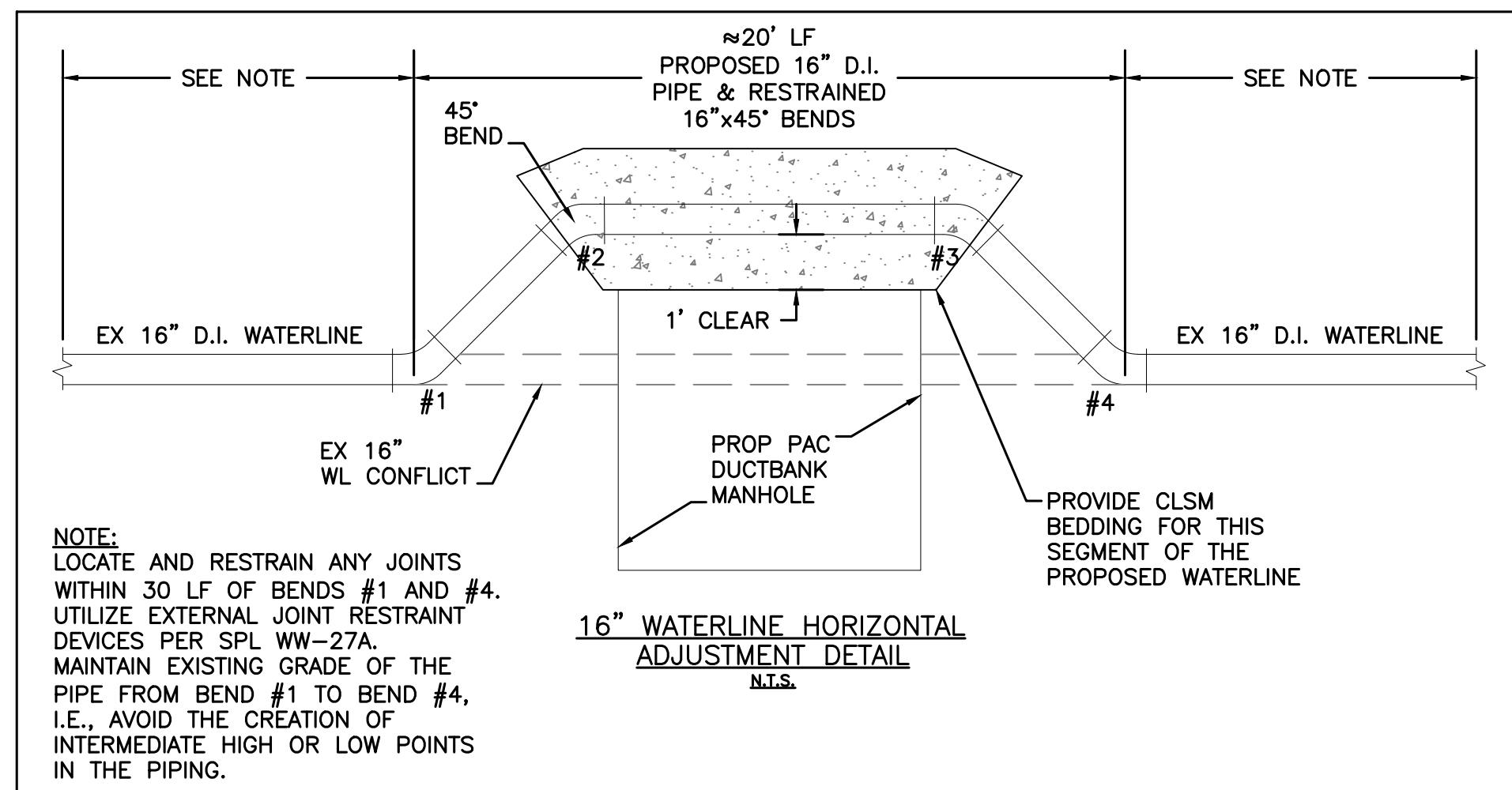
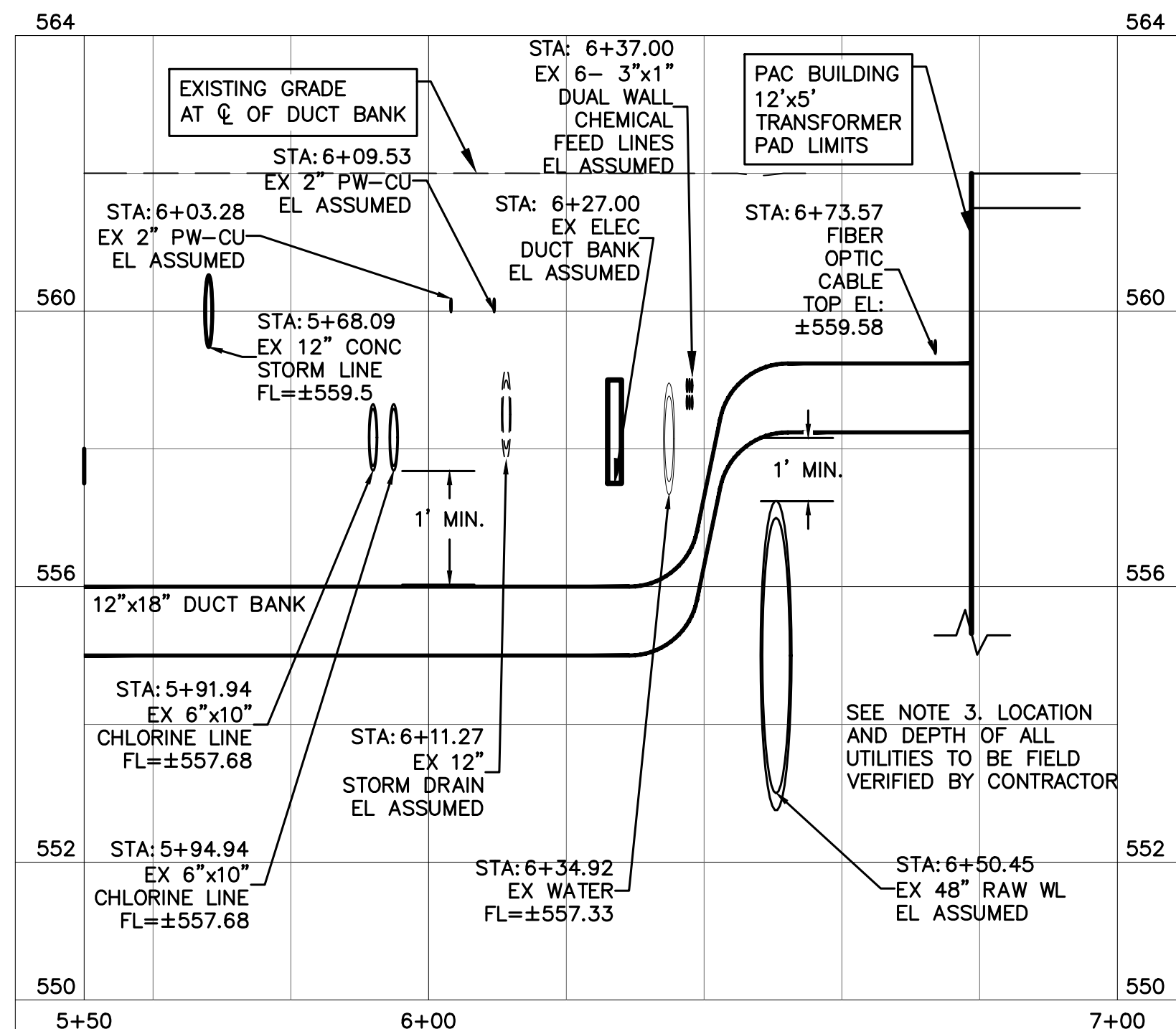
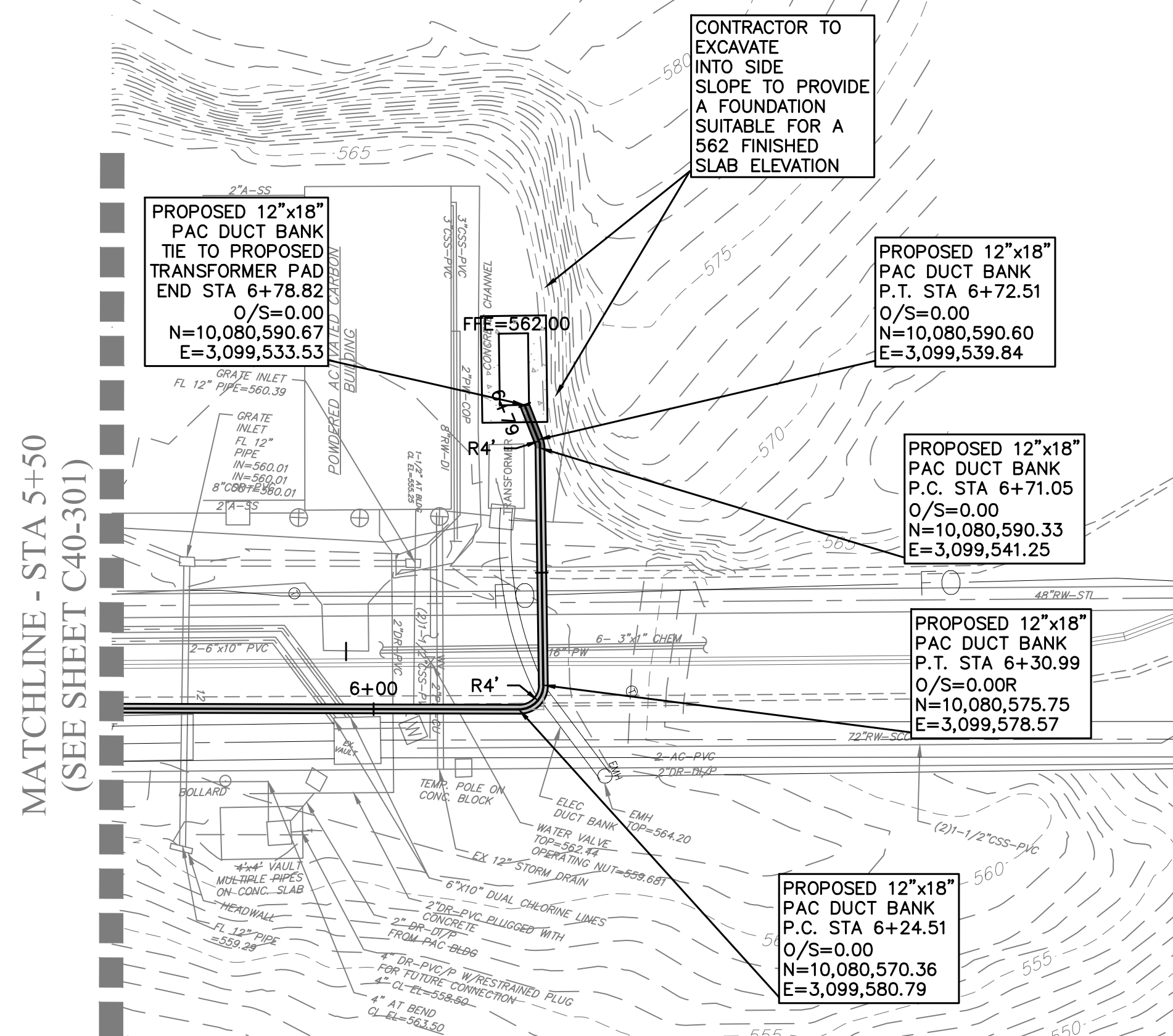
#### PAC BUILDING DUCT BANK PLAN & PROFILE (1 OF 2)

0 1" 2"  
H: 1" = 20' V: 1" = 2'

FILENAME 1126DUCTPP01.dwg  
SCALE

SHEET 51 of 350  
C40-301





PROFILE LEGEND:		PROFILE SCALE:	
EXISTING GROUND	— — —	1"=20'	HORIZONTAL
PROPOSED GRADE	————	1"=2'	VERTICAL

NOTES:

1. CONSTRUCT MANHOLE RIM AND COVER FLUSH WITH PAVEMENT SURFACE.
2. IT WILL BE NECESSARY FOR THE CONTRACTOR TO RELOCATE THE 16-INCH WATERLINE AT THE LOCATION OF THE TWO PROPOSED ELECTRICAL MANHOLES. REFER TO THE DETAIL ON SHEET C40-302.
3. THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO DUCT BANK AND MANHOLE INSTALLATION.

SITE PLAN APPROVAL SHEET OF \_\_\_\_\_  
FILE NUMBER \_\_\_\_\_ APPLICATION DATE: \_\_\_\_\_  
APPROVED BY COMMISSION ON \_\_\_\_\_ UNDER SECTION \_\_\_\_\_ OF  
THE ENVIRONMENTAL QUALITY ACT OF 1970  
EXPIRATION DATE (25-5-81, UIC) \_\_\_\_\_ CASE MANAGER \_\_\_\_\_  
PROJECT EXPIRATION DATE (ORD #870905-A) \_\_\_\_\_ DMWZ \_\_\_\_\_ DDZ \_\_\_\_\_

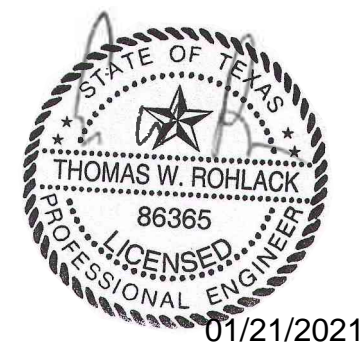
Director, Watershed Protection and Development Review  
RELEASED FOR GENERAL COMPLAINT: \_\_\_\_\_ ZONING: \_\_\_\_\_

Rev. 1 \_\_\_\_\_ Correction 1 \_\_\_\_\_  
Rev. 2 \_\_\_\_\_ Correction 2 \_\_\_\_\_  
Rev. 3 \_\_\_\_\_ Correction 3 \_\_\_\_\_

Final Plan must be recorded by the Project Expiration Date, if applicable.  
Subsequent Site Plans which do not comply with the Code current at the  
time of filing, and all required Building Permits and/or a notice of  
construction (if a building permit is not required), must also be approved  
prior to the Project Expiration Date.

[illegible]

<b>PROJECT MANAGER</b>	
<b>DESIGNED BY</b>	DG
<b>DRAWN BY</b>	DCH
<b>CHECKED BY</b>	DG
<b>DATE</b>	
<b>PROJECT NUMBER</b>	1126



ULLRICH WTP  
LOW SERVICE PUMP STATION  
ELECTRICAL FEED RENEWAL

## PAC BUILDING DUCT BANK PLAN & PROFILE (2 OF 2)



<b>FILENAME</b>	1126DUCTPP02.dwg
<b>SCALE</b>	H: 1" = 20' V: 1"=2'

SHEET 52 of 350  
**C40-302**