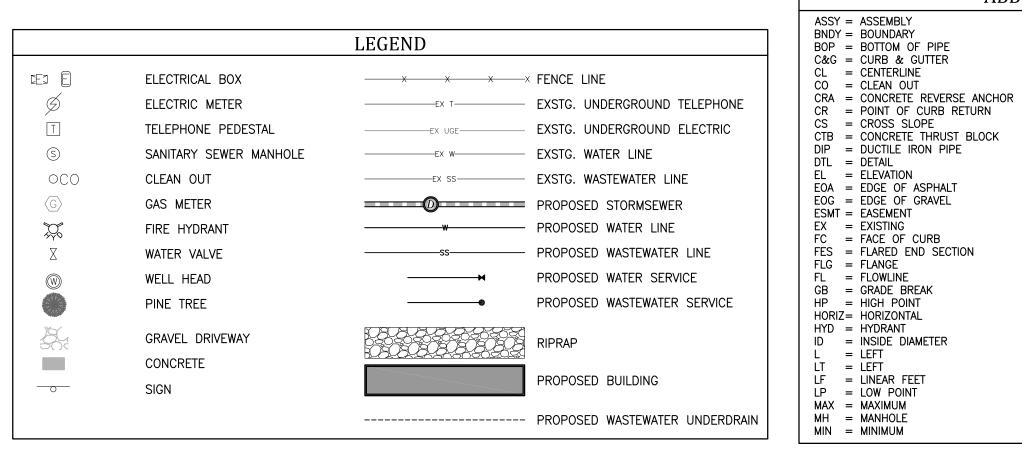
### Volumes 1 and 2, and the El Paso County Engineering Criteria Manual. Contractor shall be responsible for the notification and field notification of all existing utilities, whether shown on the plans or not, before beginning construction Location of existing utilities shall be verified by the contractor prior to construction. Call 811 to contact the Utility Notification Center of Colorado (UNCC). Contractor shall keep a copy of these approved plans, the Grading and Erosion Control Plan, the Stormwater Management Plan (SWMP), the soils and geotechnical report, and the appropriate design and construction standards and specifications at the job site at all times, including the following: a. El Paso County Engineering Criteria Manual (ECM) City of Colorado Springs/El Paso County Drainage Criteria Manual, Volumes 1 and 2 Colorado Department of Transportation (CDOT) Standard Specifications for Road and Bridge Construction CDOT M & S Standards Notwithstanding anything depicted in these plans in words or graphic representation, all design and construction related to roads, storm drainage and erosion control shall conform to the standards and requirements of the most recent version of the relevant adopted El Paso County standards, including the Land Development Code, the Engineering Criteria Manual, the Drainage Criteria Manual, and the Drainage Criteria Manual Volume 2. Any deviations from regulations and standards must be requested, and approved, in writing. Any modifications necessary to meet criteria after-the-fact will be entirely the developer's responsibility to rectify. It is the design engineer's responsibility to accurately show existing conditions, both onsite and offsite, on the construction plans. Any modifications necessary due to conflicts, omissions, or changed conditions will be entirely the developer's responsibility to rectify. Contractor shall schedule a pre-construction meeting with El Paso County Development Services Department (DSD) - Inspections, prior to starting construction. It is the contractor's responsibility to understand the requirements of all jurisdictional agencies and to obtain all required permits, including but not limited to El Paso County Erosion and Stormwater Quality Control Permit (ESQCP), Regional Building Floodplain Development Permit, U.S. Army Corps of Engineers-issued 401 and/or 404 permits, and county and state fugitive dust permits. Contractor shall not deviate from the plans without first obtaining written approval from the design engineer and DSD. Contractor shall notify the design engineer immediately upon discovery of any errors or inconsistencies. All storm drain pipe shall be Class III RCP unless otherwise noted and approved by DSD. evise all references Contractor shall coordinate geotechnical testing per ECM standards. Pavement design shall be approved by El Paso County DSD prior to placement of curb and gutter and pavement All construction traffic must enter/exit the site at approved construction access points. 2. Sight visibility triangles as identified in the plans shall be provided at all intersections. Obstructions greater than 18 inches above flowline are not allowed within sight triangles. 3. Signing and striping shall comply with El Paso County DOT and MUTCD criteria. [If applicable, additional signing and striping notes will be provided.] 4. Contractor shall obtain any permits required by El Paso County DOT, including Work Within the Right-of-Way and Special Transport permits. . The limits of construction shall remain within the property line unless otherwise noted. The owner/developer shall obtain written permission where required, from adjoining property owner(s) prior to any off-site disturbance, grading, or construction. GENERAL NOTES: All new construction to conform to the specifications of the El Paso County Development Services Department. Any asphalt to be removed is to be replaced to meet the specifications of the El Paso County Development Services Department. A Pre-Construction meeting shall be held with the El Paso County Development Services Department and Woodmoor Water and Sanitation District prior to any construction. Approved plans, County Engineering Criteria Manual, etc. is required to be on-site at all times. All necessary permits, such as a Stormwater Discharge Permit and associated Stormwater Management Plan, Fugitive Dust, Access, etc. shall be obtained prior to construction. Profile design lines and horizontal stationing are based on centerline, as shown, unless otherwise noted. Pavement design to be based on resistance value 'R' derived from Hveem tests and are approved by the El Paso County Development Services Department prior to work above subgrade. The locations of existing utilities have been shown according to the best available information. The contractor is responsible for field location and verification of existing utilities prior to beginning work. If it appears that there could be a conflict with any utilities, whether indicated on the plans or not, the contractor is to notify the engineer and qwner immediately. The contractor is responsible for the protection and repair (if necessary) of all utilities. Where appropriate, neatly sawcut all existing concrete and asphalt. Repair/replace all disturbed existing items with like materials and thicknesses All disturbed areas shall be revegetated with native grasses within 30 days of excavation per Erosion Control Plan. 10. The prepared Erosion/Sediment Control Plan is to be considered a part of these plans and its requirements adhered to during the construction of this project. 11. All storm and sanitary sewer pipe lengths and slopes are figured from center of manhole or bend. Culvert pipe lengths are determined from the end of the flared end sections. Pipe lengths given as a horizontal length. 12. All storm sewer bedding to be per CDoT Standards. 13. All storm sewer pipe class and type is called out on the plan and profile sheets. 14. Concrete pipe joint fasteners are required on the first two pipe joints from the downstream flared end section of a drainage pipe. 15. All wyes and bends used in construction of stormsewer facilities shall be factory fabricated, unless approved by the E Paso County Development Services Department. 16. Construction and materials used in all storm and sanitary sewer manholes shall be per specification. 17. Water and sanitary sewer service provided by Woodmoor Water and Sanitation District. Telephone service provided by US West Communications. Gas service provided by Blackhills Energy. Electric service provided by Mountain View Electric. 18. All easements located outside of the platted area shall be secured by Owner prior to final approval by El Paso County Development Services Department 19. The horizontal control is the state plane coordinate system, Colorado Central Zone (NAD 83). Coordinates of the two temporary benchmarks are noted below and on the plan. Benchmarks: NGS Benchmark "T 395" -- Elevation = 7111.32 (NAVD 1988) TBM#1 Northwest Property Corner (N22,611.42, E49,719.36) Elevation=7133.64 TBM#2 Northeast Property Corner (N23,006.10, E50,252.56) Elevation=7134.40

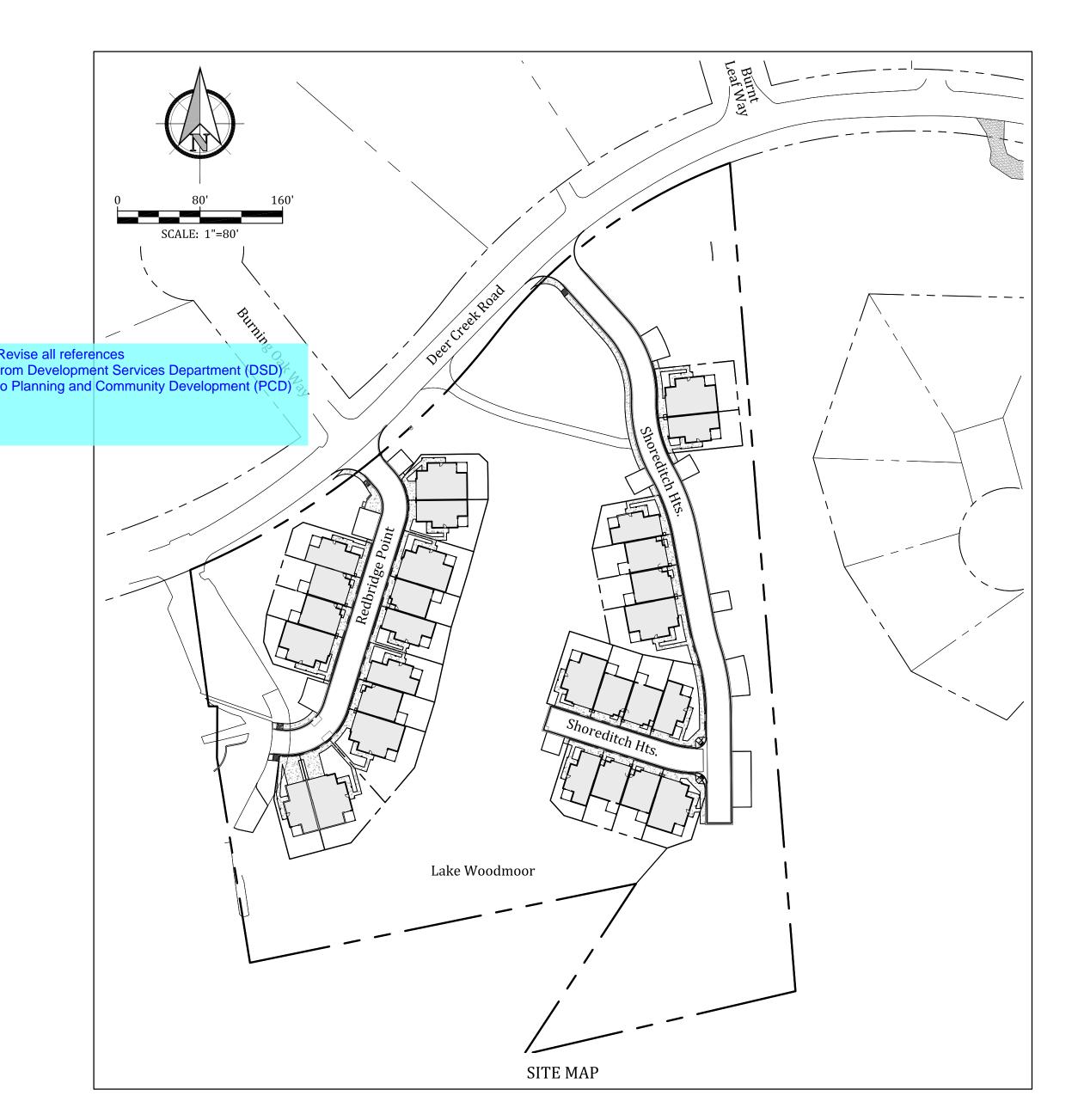
All drainage and roadway construction shall meet the standards and specifications of the City of Colorado Springs/El Paso County Drainage Criteria Manual,

EL PASO COUNTY STANDARD NOTES



ABBREVI

# North Bay at Lake Woodmoor EL PASO COUNTY, COLORADO **RESIDENTIAL SUBDIVISION CONSTRUCTION DRAWINGS** Prepared for Lake Woodmoor Holdings, LLC



ATI	0	NS
ZTL	=	NOT TO SCALE
		OUTSIDE DIAMETER
		POINT OF HORIZONTAL CURVATURE
		PLUMBING
		POINT OF CONNECTION
		PROPOSED
		POINT OF REVERSE CURVE
		PROPERTY
		PRIVATE
		POINT OF HORIZONTAL TANGENCY
	_	POLY VINYL CHLORIDE PIPE
	_	
ν.	_	POINT OF VERTICAL INTERSECTION
х. ЛVr	_	POINT OF VERTICAL TANGENCY
<u>،</u> ک	_	POINT OF VERTICAL INTERSECTION POINT OF VERTICAL TANGENCY RADIUS
RCP	_	REINFORCED CONCRETE PIPE
		ROOF DRAIN (STORM LINE)
		RIGHT OF WAY
		RIGHT
		SHEET
		SAND OIL INTERCEPTOR
		SAND OLE INTERCEPTOR
		STATION
		STANDARD
		TOP OF ASPHALT
		THRUST BLOCK
		TOP OF CURB
	_	TOP OF ASPHALT
TOC	_	TOP OF CONCRETE
ΓΟΡ	=	TOP OF PIPE
ΓΥΡ	_	TYPICAL
/C	=	VERTICAL CURVE

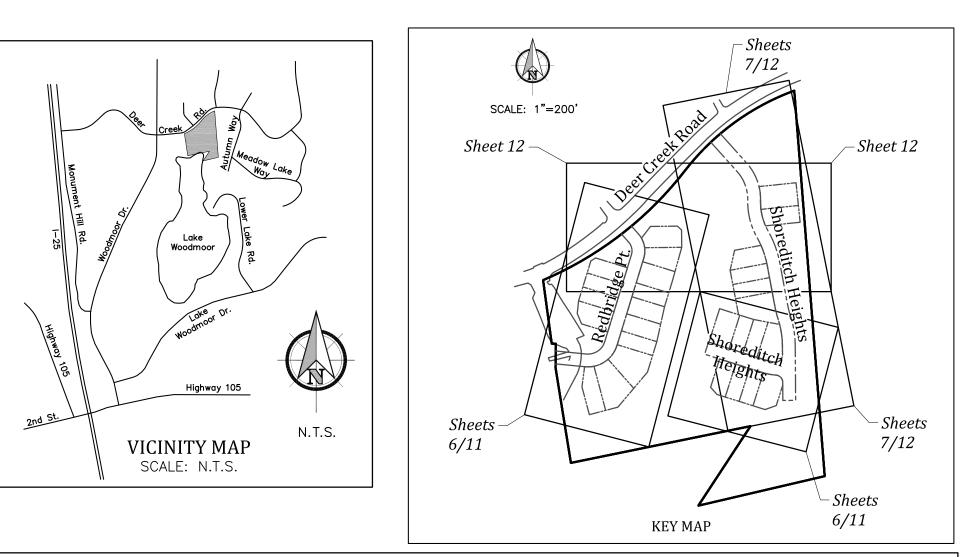
CONTACT LIST								
El Paso County Planning and Community Development	Nina Ruiz	719-520-6313						
Lake Woodmoor Holdings, LLC	Thomas Taylor	719-867-2250						
N.E.S., Inc.	Ron Bevens	719-471-0073						
Kiowa Engineering Corp.	Chris Castelli	720-330-2553						
Woodmoor Water & Sanitation District	Jessie Shaffer	719-488-2525						
Mountain View Electric Assoc.		719-495-2283						
Tri-Lakes Monument Fire Protection District		719-484-0911						

## Kiowa Project No. 15073 November 21, 2019

## Colorado Springs, Colorado 80920 El Paso County:

County Engineer / ECM Administrator

INDEX OF SHEETS							
1	Cover Sheet						
2	Final Grading and Erosion Control Plan						
3	Grading and Erosion Control Details						
4	Grading and Erosion Control Details						
5	Grading and Erosion Control Details						
6	Plan and Profile - Redbridge Pt. & Shoreditch Hts.						
7	Plan and Profile - Shoreditch Heights						
8	Utility Plan Cover Sheet						
9	Utility Plan						
10	Utility Services Plan						
11	Water Plan and Profile						
12	Water Plan and Profile						
13	Lake Fork Dirty Woman Creek Plan and Profile						
14							
15	Storm Sewer Plan and Profiles						
16	Storm Sewer Details						
17	Shoreditch Heights Crossing Details						
18	8						
19	Sand Filter Details						
20	Signing and Striping Plan						
21	Miscellaneous Civil Details						



### **STATEMENTS**

### Design Engineer's Statement:

These detailed plans and specifications were prepared under my direction and supervision. Said plans and specifications have been prepared according to the criteria established by the County for detailed roadway, drainage, grading and erosion control plans and specifications, and said plans and specifications are in conformity with applicable master drainage plans and master transportation plans. Said plans and specifications meet the purposes for which the particular roadway and drainage facilities are designed and are correct to the best of my knowledge and belief. I accept responsibility for any liability caused by any negligent acts, errors or omissions on my part in preparation of these detailed plans and specifications.

Christopher J. Castelli, P.E. #38842 Date For and on behalf of Kiowa Engineering Corp.

**Owner/Developer's Statement:** 

I, the owner/developer have read and will comply with all of the requirements specified in these detailed plans and specifications.

Thomas Taylor, Director of Development Services Lake Woodmoor Holdings, LLC 1755 Telstar Drive Suite 211

County plan review is provided only for general conformance with County Design Criteria. The County is not responsible for the accuracy and adequacy of the design, dimensions, and/or elevations which shall be confirmed at the job site. The County through the approval of this document assumes no responsibility for completeness and/or accuracy of this document.

Filed in accordance with the requirements of the El Paso County Land Development Code, Drainage Criteria Manual, and Engineering Criteria Manual as amended.

In accordance with ECM Section 1.12, these construction documents will be valid for construction for a period of 2 years from the date signed by the El County Engineer. If construction has not started within those 2 years, the plans will need to be resubmitted for approval, including payment of review fees at the Planning and Community Development Director's discretion.

Jennifer Irvine, PE,

## Tri-Lakes Monument Fire Protection District

The number of fire hydrants and hydrant locations as shown on the Utility System Plan are correct and adequate to satisfy the fire protection requirements as specified by the Tri-Lakes Monument Fire Protection District.

Woodmoor Water and Sanitation District No. 1 Approved for Construction

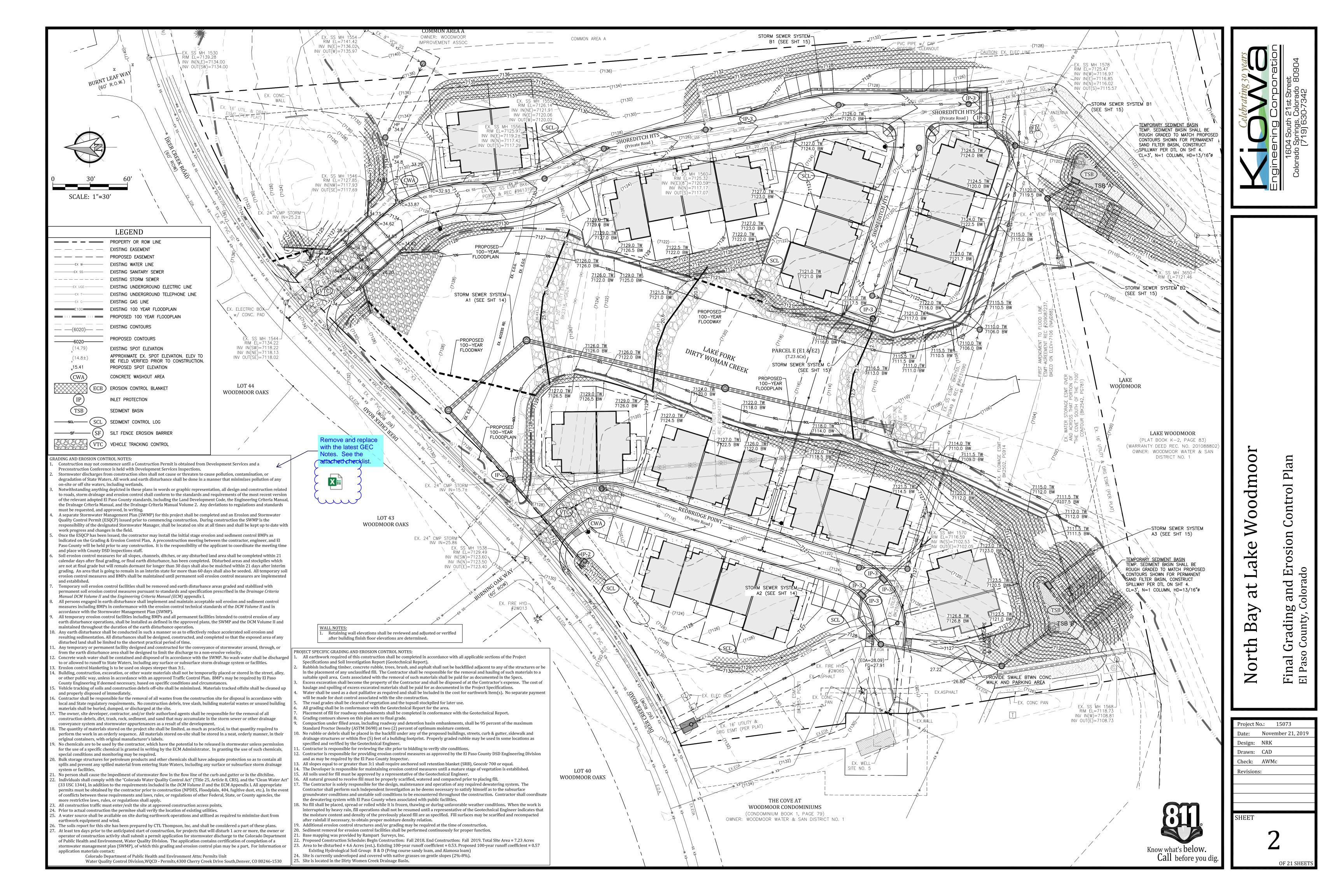
These plans have been reviewed only for general conformance with District Rules and Regulations and System Specifications. Review and construction approval by the District does not relieve the Developer/Owner and/or Contractor from responsibility for compliance with any Rules, Regulations, or Specifications required by the District.

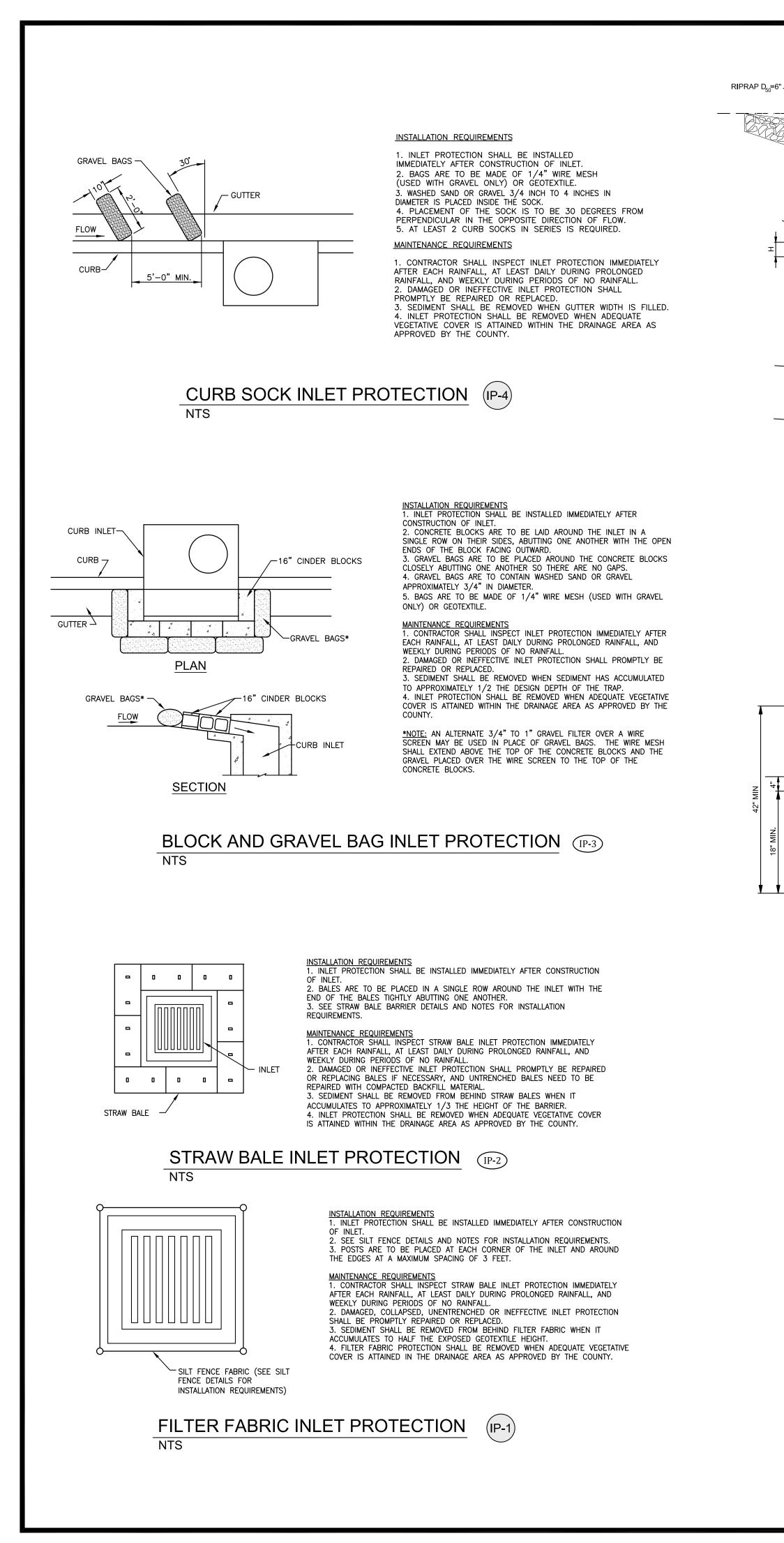
## **DEVELOPER:**

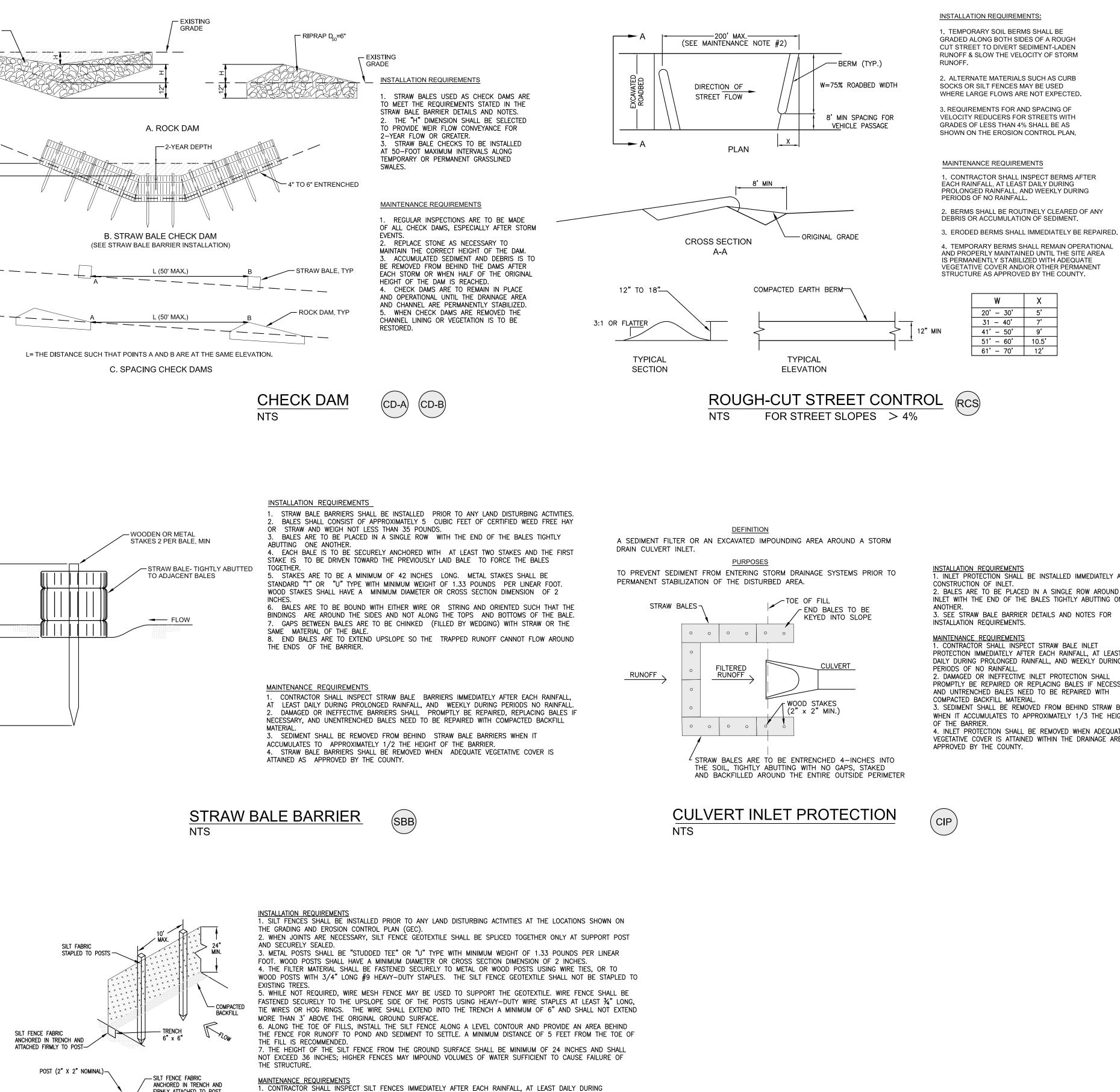
Lake Woodmoor Holdings, LLC 1755 Telstar Drive Suite 211 Colorado Springs, CO 80920



PCD Project No. SF-16-021







FIRMLY ATTACHED TO POST PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL. DAMAGED, COLLAPSED, UNENTRENCHED OR INEFFECTIVE SILT FENCES SHALL BE PROMPTLY REPAIRED OR REPLACED. 2. SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCE WHEN IT ACCUMULATES TO HALF THE EXPOSED TRENCH GEOTEXTILE HEIGHT. FLOW 3. SILT FENCES SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE

SILT FENCE DETAIL (SF) NTS 

NOTE: DETAILS SHOWN MAY NOT BE REQUIRED FOR THIS PROJECT. REFER TO GRADING AND EROSION CONTROL PLAN. ANY CHANGES SHALL BE COORDINATED WITH EL PASO COUNTY ENGINEERING DIVISION INSPECTIONS

4. INLET PROTECTION SHALL BE REMOVED WHEN ADEQUATE

WHEN IT ACCUMULATES TO APPROXIMATELY 1/3 THE HEIGHT

3. SEDIMENT SHALL BE REMOVED FROM BEHIND STRAW BALES

VEGETATIVE COVER IS ATTAINED WITHIN THE DRAINAGE AREA AS

APPROVED BY THE COUNTY.

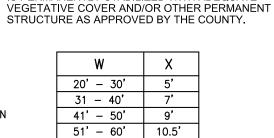
AND UNTRENCHED BALES NEED TO BE REPAIRED WITH COMPACTED BACKFILL MATERIAL. OF THE BARRIER.

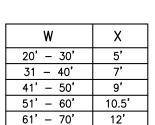
2. DAMAGED OR INEFFECTIVE INLET PROTECTION SHALL

DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL. PROMPTLY BE REPAIRED OR REPLACING BALES IF NECESSARY,

MAINTENANCE REQUIREMENTS . CONTRACTOR SHALL INSPECT STRAW BALE INLET PROTECTION IMMEDIATELY AFTER FACH RAINFALL, AT LEAS

1. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF INLET. 2. BALES ARE TO BE PLACED IN A SINGLE ROW AROUND THE INLET WITH THE END OF THE BALES TIGHTLY ABUTTING ONE 3. SEE STRAW BALE BARRIER DETAILS AND NOTES FOR INSTALLATION REQUIREMENTS.





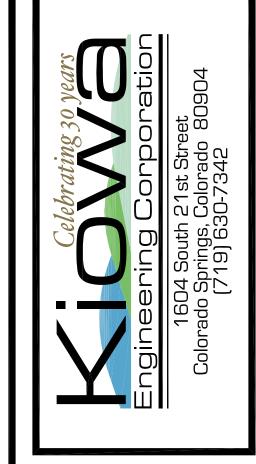
PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL. 2. BERMS SHALL BE ROUTINELY CLEARED OF ANY DEBRIS OR ACCUMULATION OF SEDIMENT.

MAINTENANCE REQUIREMENTS 1. CONTRACTOR SHALL INSPECT BERMS AFTER EACH RAINFALL, AT LEAST DAILY DURING

3. REQUIREMENTS FOR AND SPACING OF VELOCITY REDUCERS FOR STREETS WITH GRADES OF LESS THAN 4% SHALL BE AS SHOWN ON THE EROSION CONTROL PLAN.

2. ALTERNATE MATERIALS SUCH AS CURB SOCKS OR SILT FENCES MAY BE USED WHERE LARGE FLOWS ARE NOT EXPECTED.

1. TEMPORARY SOIL BERMS SHALL BE GRADED ALONG BOTH SIDES OF A ROUGH CUT STREET TO DIVERT SEDIMENT-LADEN RUNOFF & SLOW THE VELOCITY OF STORM



din nty Ш σ th Ŭ G ıal Pa' 0 Fin: El Pa Z Project No.: 15073

 $\bigcirc$ 

Б

C

0

 $\geq$ 

σ

Э

Э

D

Ы

ol

ι L

0

 $\mathbf{O}$ 

0

Si

0

Ш

q

an

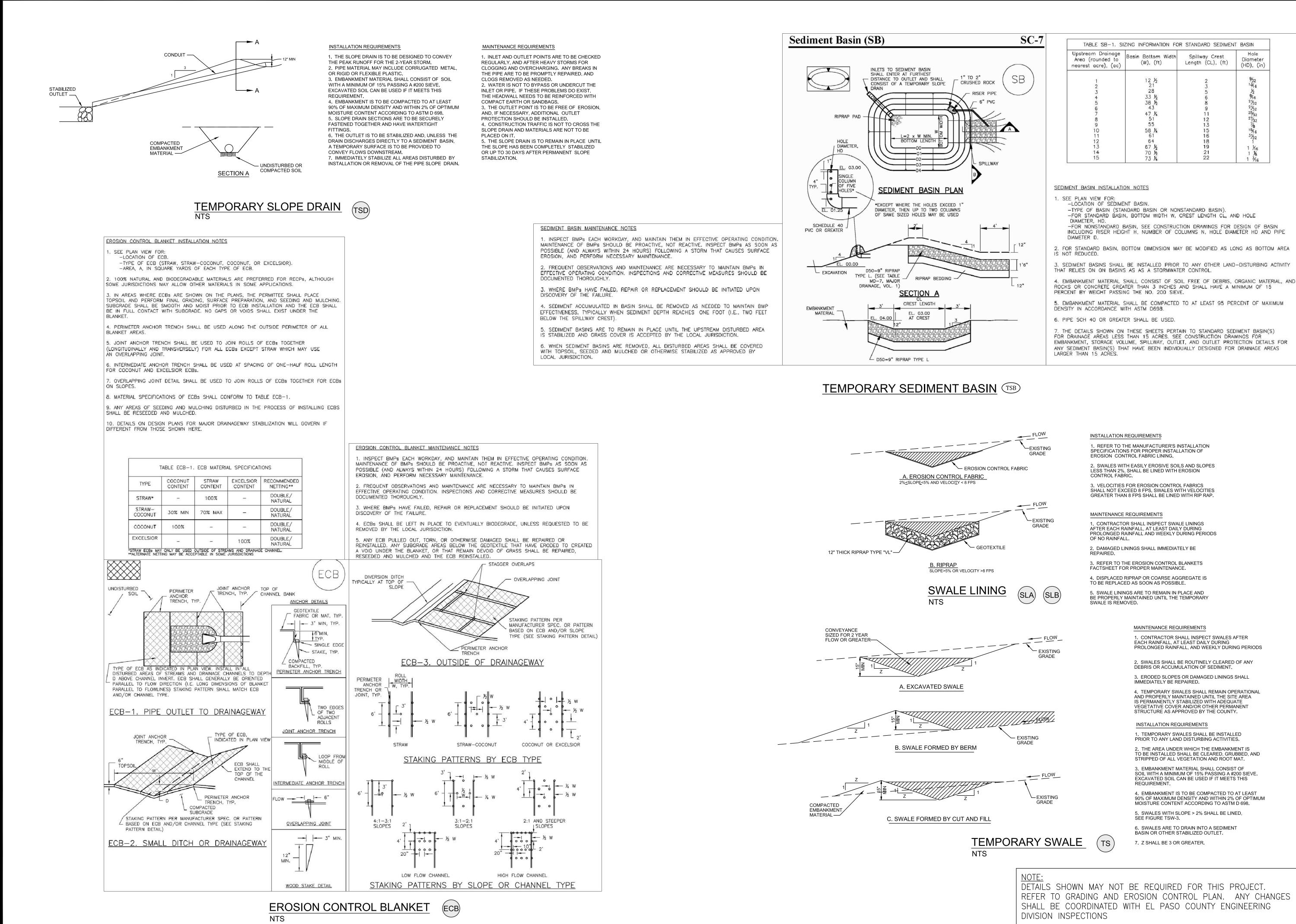
50

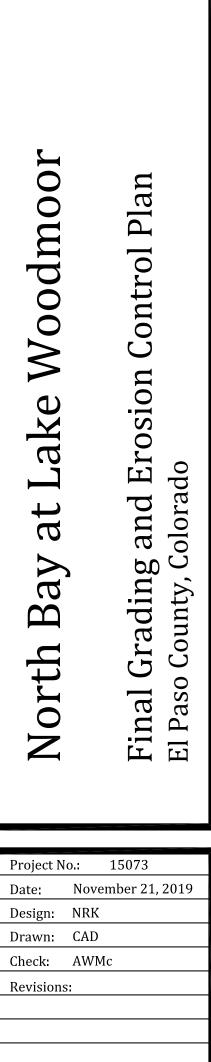
do

olo

Date: November 21, 2019 Design: NRK Drawn: CAD Check: AWMc Revisions

SHEET





SHEET

### INSTALLATION REQUIREMENTS

1. SEE GEC FOR: - LOCATION OF DIVERSION DITCH.

- TYPE OF DITCH (UNLINED, ECB LINED, PLASTIC LINED OR RIPRAP LINED). - LENGTH OF EACH TYPE OF DITCH. - DEPTH, "D", AND WIDTH, "W" DIMENSIONS.

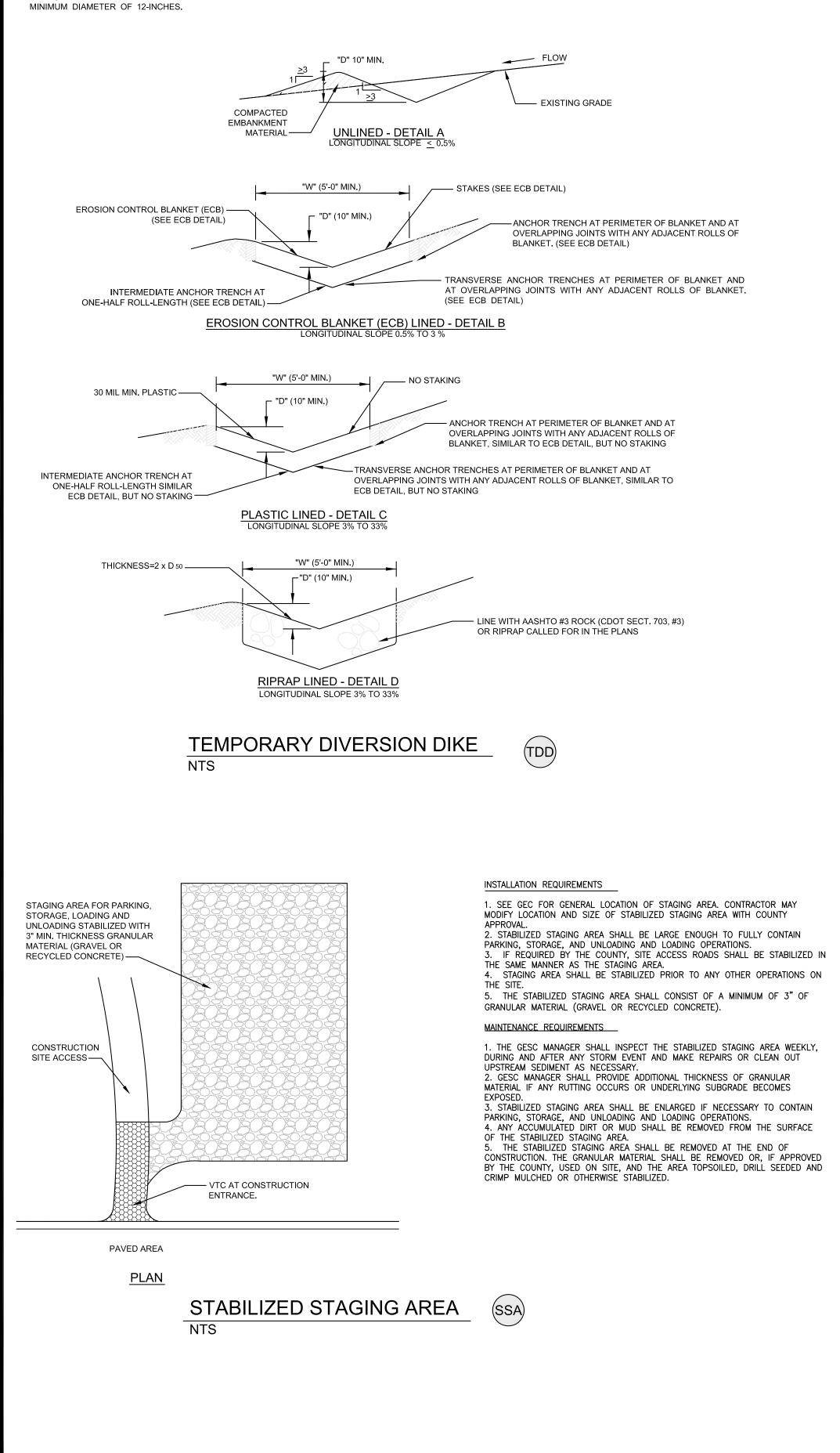
- FOR ECB LINED DITCH, EROSION CONTROL BLANKET TYPE (SEE ECB DETAIL). - FOR RIPRAP LINED DITCH, SIZE OF RIPRAP, "D50" 2. SEE DRAINAGE PLANS FOR DETAILS OF ANY PERMANENT CONVEYANCE

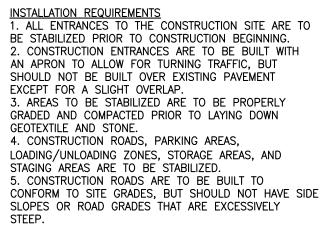
FACILITIES OR DIVERSION DITCHES EXCEEDING A 2-YEAR FLOW RATE OF 10 CFS. 3. DIVERSION DITCHES INDICATED ON INITIAL SWMP PLAN SHALL BE INSTALLED PRIOR TO ANY LAND-DISTURBING ACTIVITIES. 4. FOR ECB LINED DITCHES, INSTALLATION OF EROSION CONTROL BLANKET SHALL CONFORM TO THE REQUIREMENTS OF THE ECB DETAIL. 5. IN LOCATIONS WHERE CONSTRUCTION TRAFFIC MUST CROSS A DIVERSION DITCH, THE PERMITTEES SHALL INSTALL A TEMPORARY CULVERT WITH A

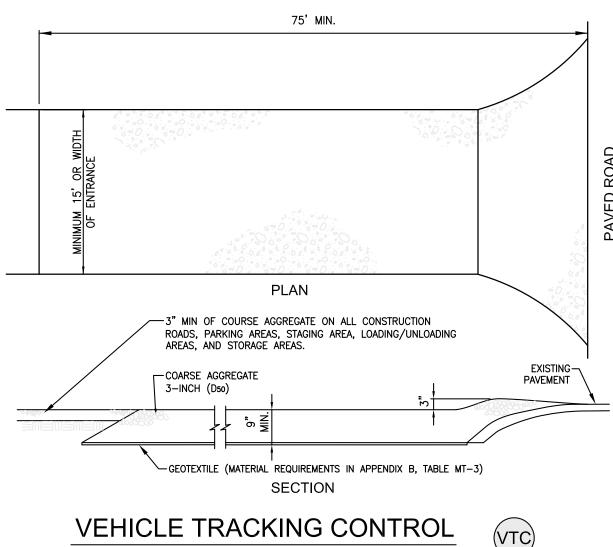
MAINTENANCE REQUIREMENTS 1. THE SWMP MANAGER SHALL INSPECT DIVERSION DITCHES WEEKLY AND DURING AND AFTER ANY STORM MAKE REPAIRS AS NECESSARY

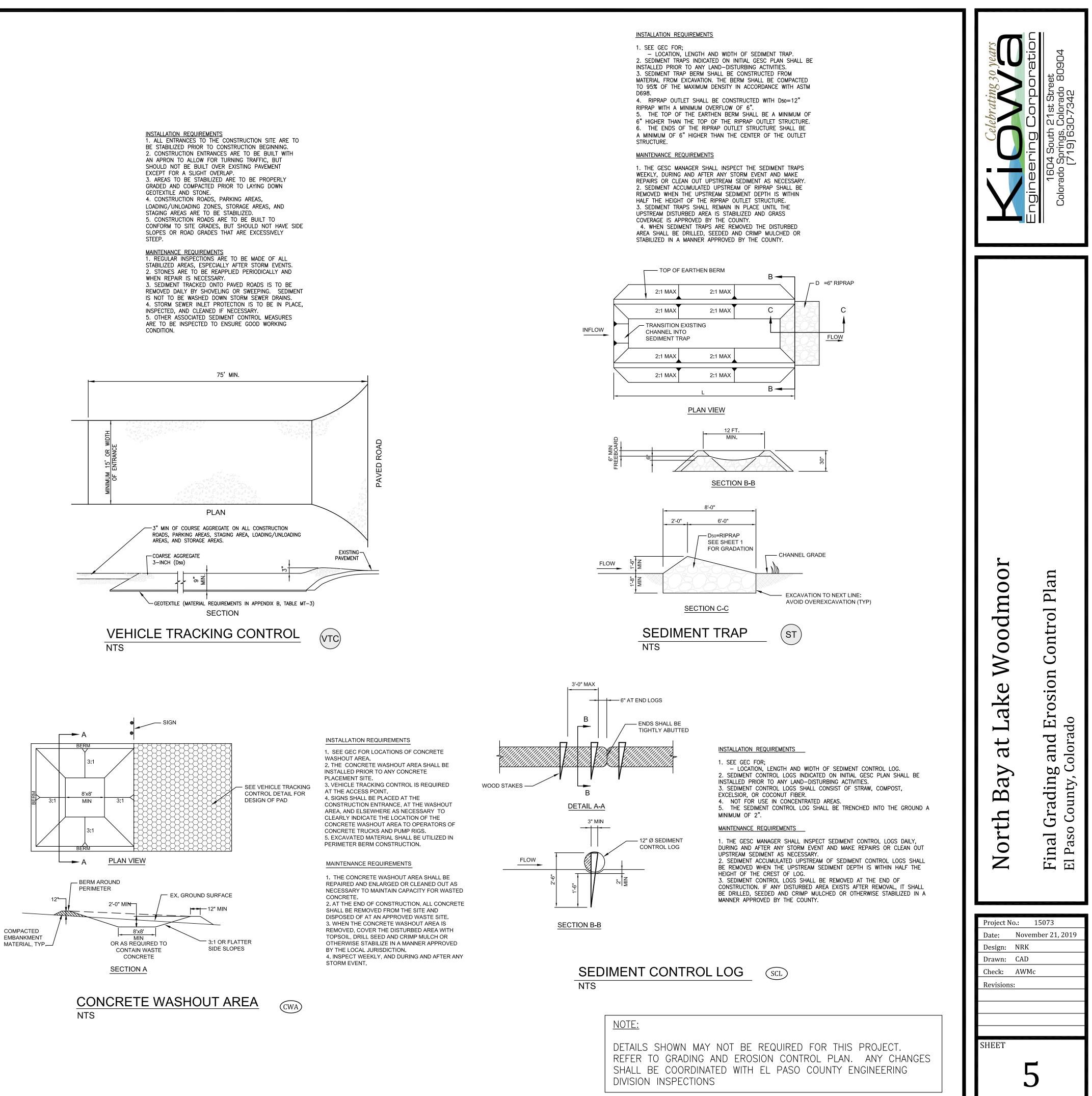
2. DIVERSION DITCHES ARE TO REMAIN IN PLACE UNTIL THE END OF CONSTRUCTION, OR IF APPROVED BY LOCAL JURISDICTION MAY BE LEFT IN PLACE

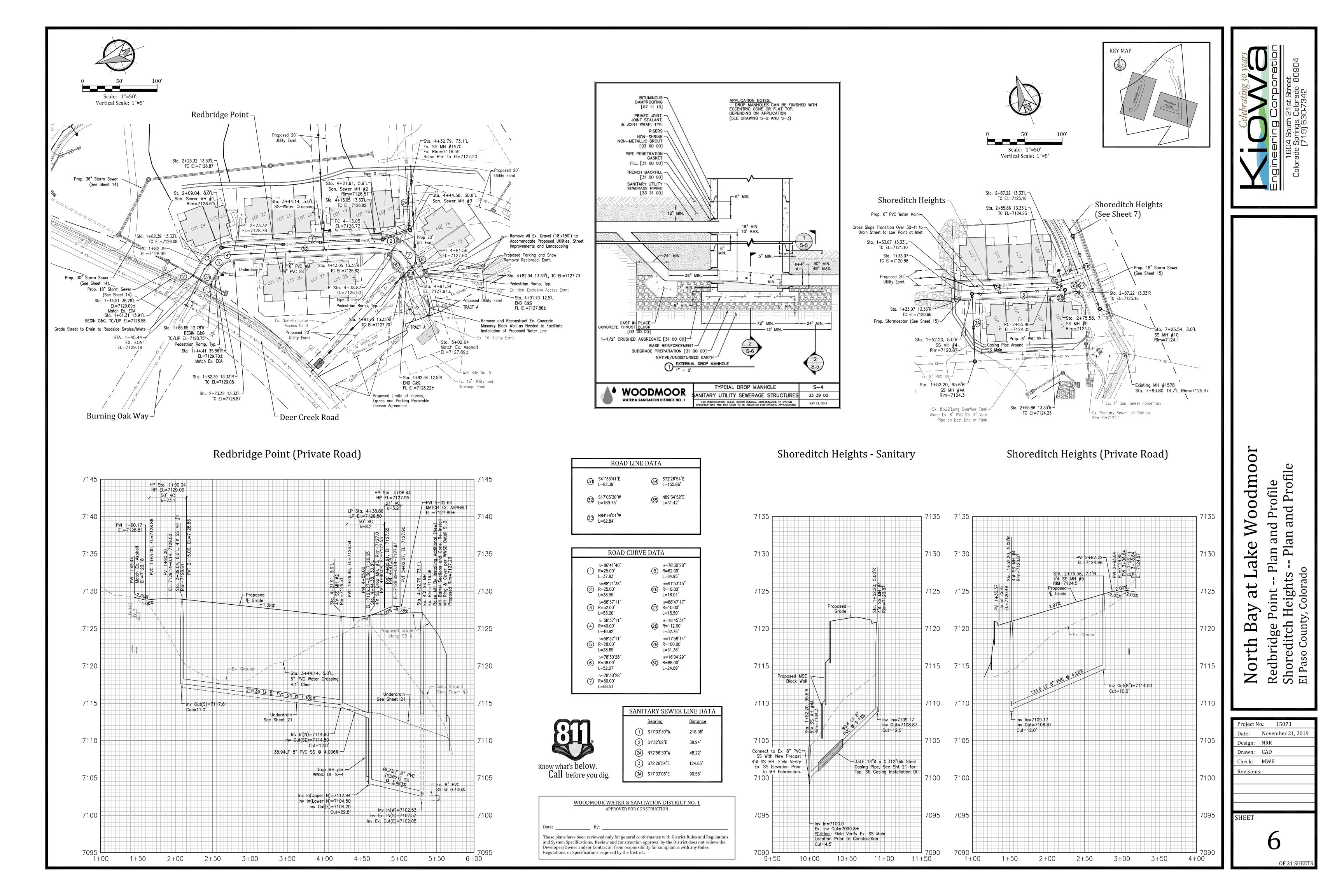
3. IF DIVERSION DITCHES ARE REMOVED, DISTURBED AREA SHALL BE COVERED WITH TOPSOIL, DRILL SEEDED, HAY CRIMPED MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

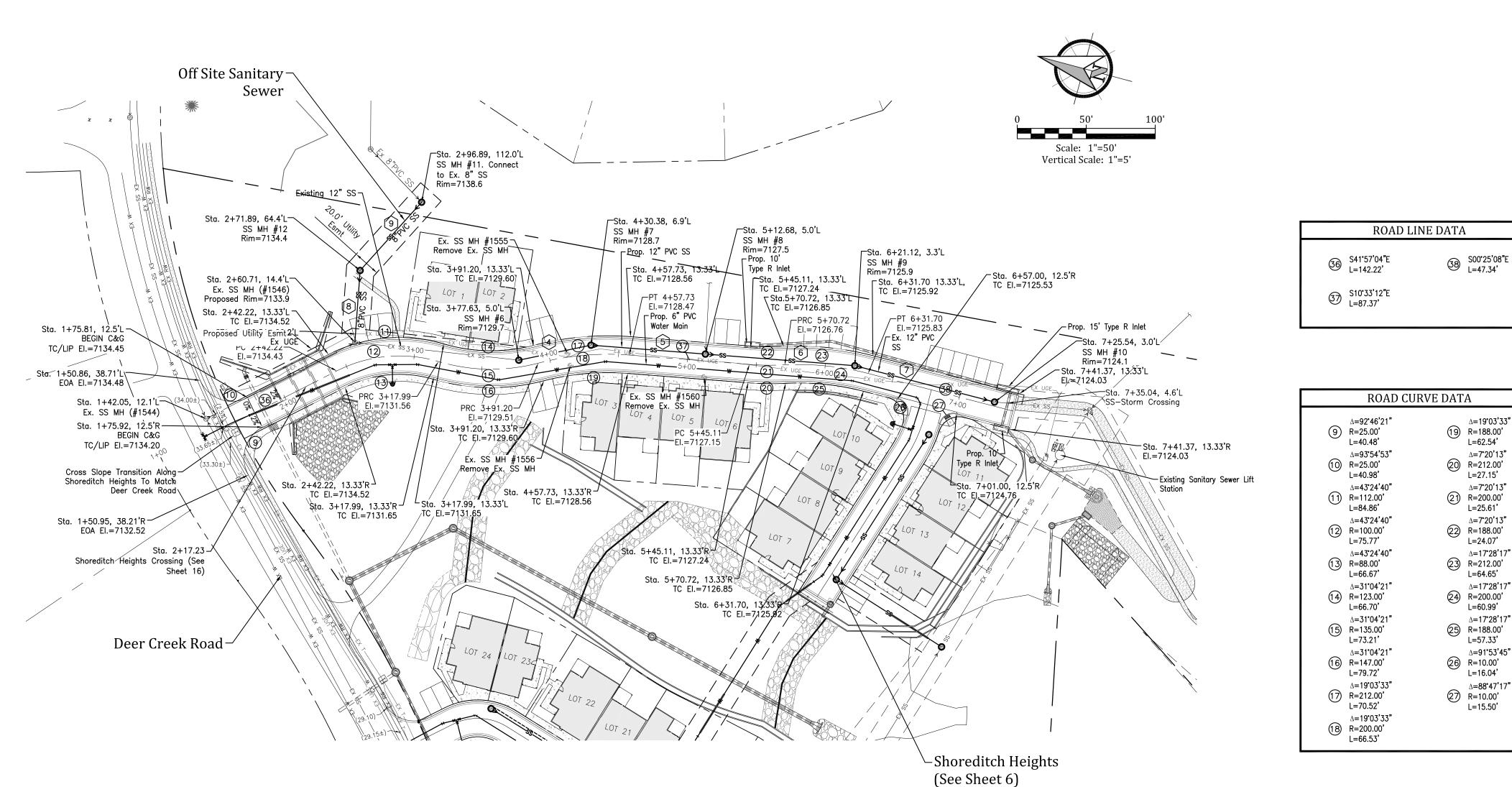




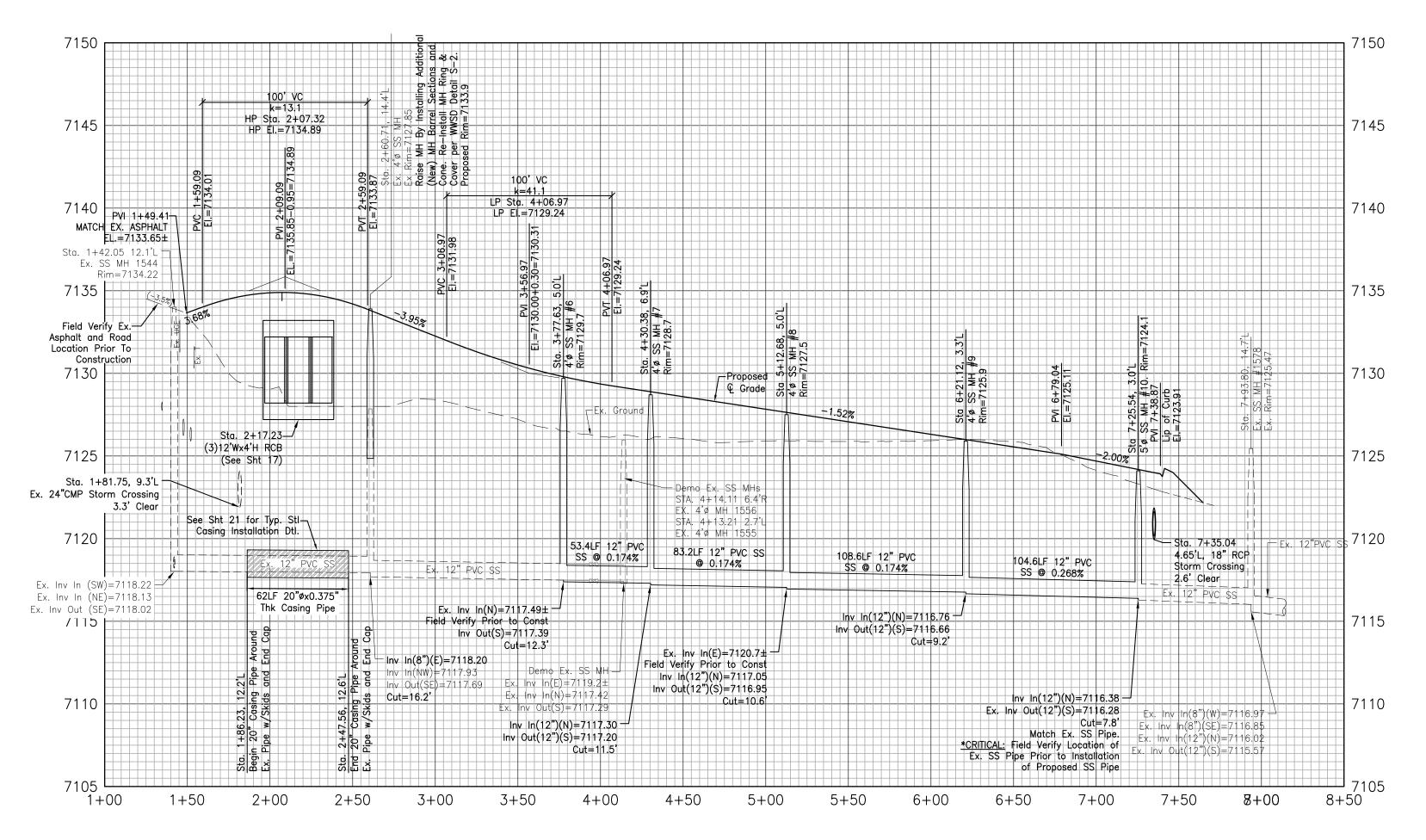




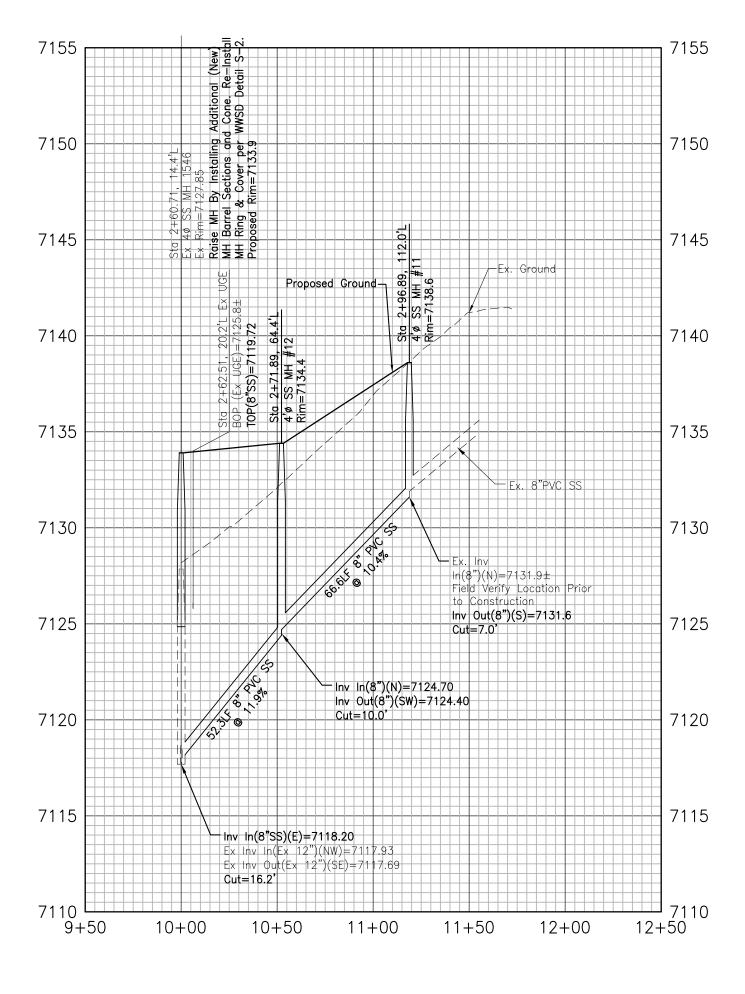


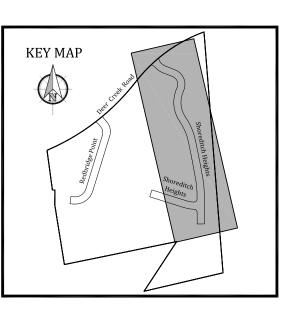


## Shoreditch Heights - Street and Sanitary Sewer



## Shoreditch Heights - Off Site Sanitary Sewer





SANITARY SEWER LINE DATA									
Bearing Distance									
4	S26*43'53"E	53.40'							
5	S10°33'12"E	83.16'							
6	S10 <b>'</b> 33'12 <b>"</b> E	108.64'							
7	S0°25'08"E	104.59'							
8	N79 <b>°</b> 10'44"E	52.26'							
9	S62 <b>`</b> 57'43 <b>"</b> E	66.58'							



### WOODMOOR WATER & SANITATION DISTRICT NO. 1 APPROVED FOR CONSTRUCTION

ate: \_\_\_\_\_

These plans have been reviewed only for general conformance with District Rules and Regulations and System Specifications. Review and construction approval by the District does not relieve the Developer/Owner and/or Contractor from responsibility for compliance with any Rules, Regulations, or Specifications required by the District.

North Bay at Lake Woodmoor	Shoreditch Heights Plan and Profile El Paso County, Colorado
Project No.: Date: Nove Design: NRK Drawn: CAD Check: MW Revisions: SHEET	

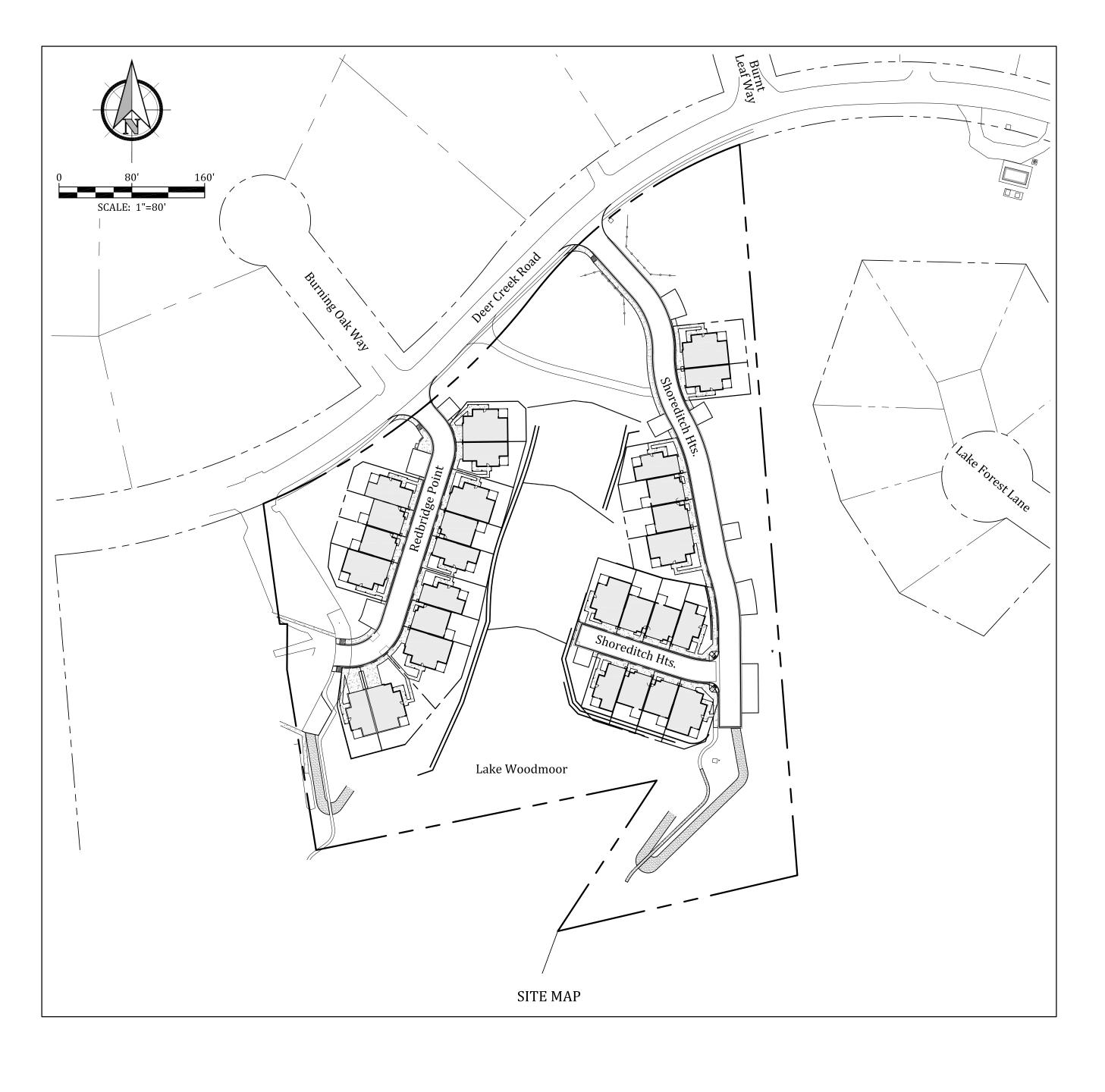
### **GENERAL NOTES:**

- All materials and installation procedures will be in compliance with the System Specifications and the Rules and Regulations of the Woodmoor Water and Sanitation District No. 1.
- Developer/Owner or Contractor shall be responsible for determining and obtaining any and all permits required to perform the work from all applicable regulatory agencies or entities having jurisdiction, and will perform the work in accordance with any and all applicable ordinances, regulations, laws and permits issued by such entities or agencies.
- Contractor shall pothole and field verify elevations, pipe size, type, alignment, etc. of existing water lines at all noted connection points to the District's system.
- 4. In case of conflict between these plans and the system specifications, consult the District prior to commencing work
- Contractor shall notify the District a minimum of 2 working days prior to performing scheduled tests for observation by District personnel.
- Bypass pumping of existing sewer flows is required when connecting to the District's existing sewer system. Contractor shall provide 100% redundant pumping capacity with continuous supervision during pumping operations. Contractor shall coordinate timing, location, etc. of bypass pumping operations with the District prior to commencing pumping operations.
- The horizontal control is the state plane coordinate system, Colorado Central Zone (NAD 83). Coordinates of the two temporary benchmarks are noted below and on the plan.
- Benchmarks: NGS Benchmark "T 395" -- Elevation = 7111.32 (NAVD 1988)

TBM#1 Northwest Property Corner (N1,462,260.00, E3,181,465.66) Elevation=7101.48 TBM#2 Southeast Property Corner (N1,460,800.42, E3,181,738.69) Elevation=7049.84

### WATER AND SEWER SERVICE LINE NOTES:

- Sewer service tap connections will be located a minimum of five (5) feet away from any manhole and be installed at the main with a gasket wye or tee fitting for new installations of sewer main. For service tap connections to existing sewer mains a sewer service saddle tap may be installed.
- Sewer service lines/stubs will be installed such that a sewer service clean out is located 5 feet into the property or centered in the front lot easement, whichever is less and be located a minimum of 10 feet away from any side lot line. Tracer wire from the sewer tap at the main to the clean out at the property line shall be installed and a metal tee post will be installed next to the clean out for protection and ease of location
- A minimum of 10 feet of horizontal separation must be maintained between water service lines and sewer service lines
- Water service lines/stubs will be 3/4-inch in diameter unless otherwise noted and installed such that the curb stop is located 5 feet into the property or centered in the front lot easement, whichever is less and a minimum of 10 feet from any sewer service line/sewer clean out.
- Curb stops and boxes shall be buried such that 6-feet (+/- 0') of cover exists as measured from finished grade to the top of the service line. A metal tee post will be installed at the curb stop box for protection and ease of location.
- Water service taps will not be located on a fire hydrant lateral or within 30" from a pipe bell, valve or mechanical joint connection. Water taps will maintain minimum five (5) foot spacing from other taps on the water main.
- Direct tapping of water service line corporation stops (i.e. no saddle) will not be permitted.

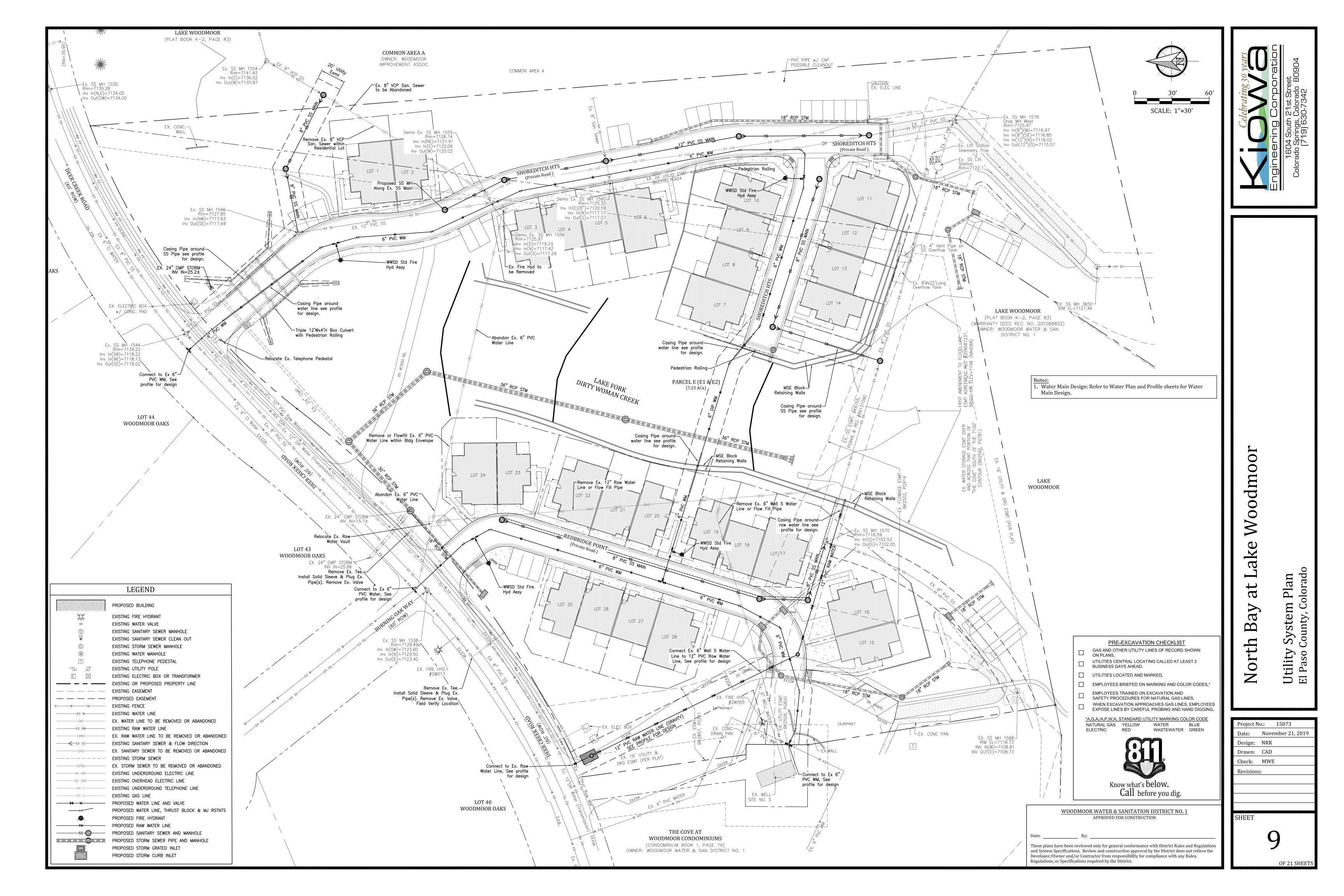


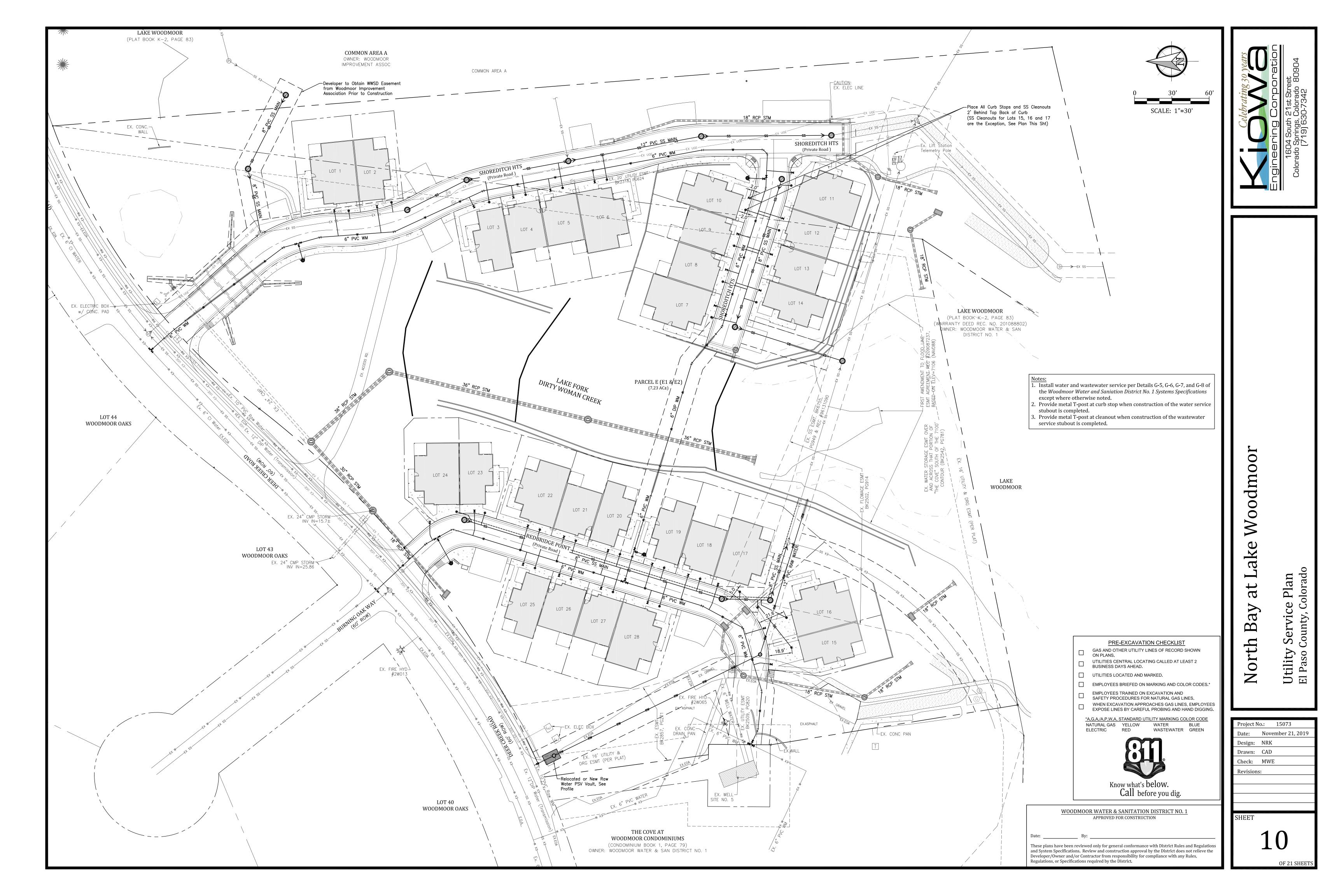
# North Bay at Lake Woodmoor EL PASO COUNTY, COLORADO PUBLIC WATER SYSTEM PLAN AND PROFILES INCLUDING UTILITY SERVICES

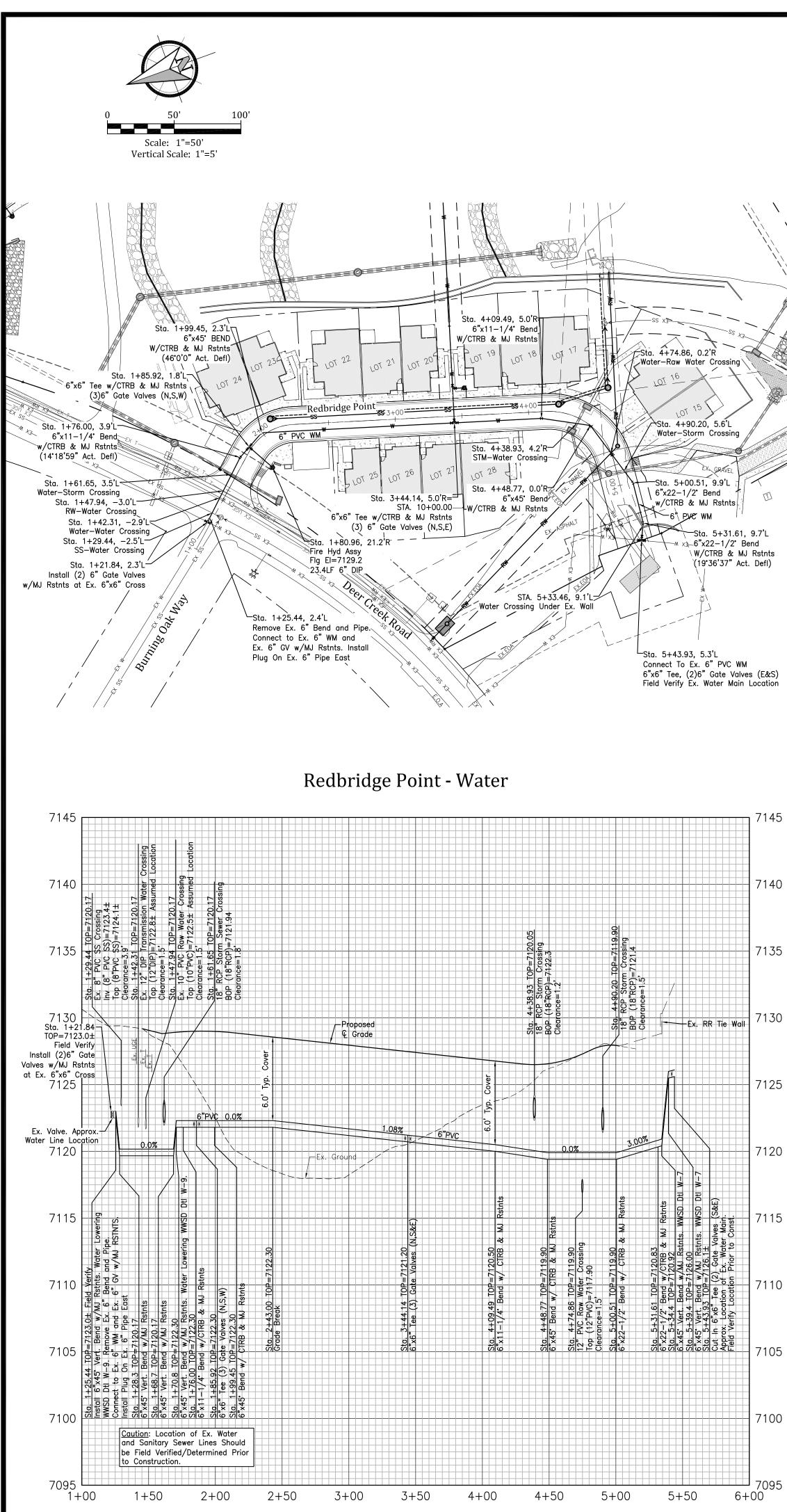
INDEX OF SHEETS	Colerating 30 years      Engine ring 30 years      Engine ring 30 years      Engine ring 30 years      Engine ring 30 years      Index ring 30 years      Engine ring 30 years      Index ring 30 years      Engine ring 30 years      Index ring
Interesting the second seco	North Bay at Lake Woodmoor Utility Plan Cover Sheet El Paso County, Colorado
Image: Service of the service of th	Project No.:15073Date:November 21, 2019Design:NRKDrawn:CADCheck:MWERevisions:
WOODMOOR WATER & SANITATION DISTRICT NO. 1      APPROVED FOR CONSTRUCTION      Date:    By:      These plans have been reviewed only for general conformance with District Rules and Regulations and System Specifications. Review and construction approval by the District does not relieve the Developer/Owner and/or Contractor from responsibility for compliance with any Rules, Regulations, or Specifications required by the District.	SHEET <b>8</b> OF 21 SHEETS

OF 21 SHEETS

- Public Water System Plan & 8
- Utility Plan 9
- Utility Services Plan 10
- Water Plan and Profile Red 11 12 Water Plan and Profile - Red

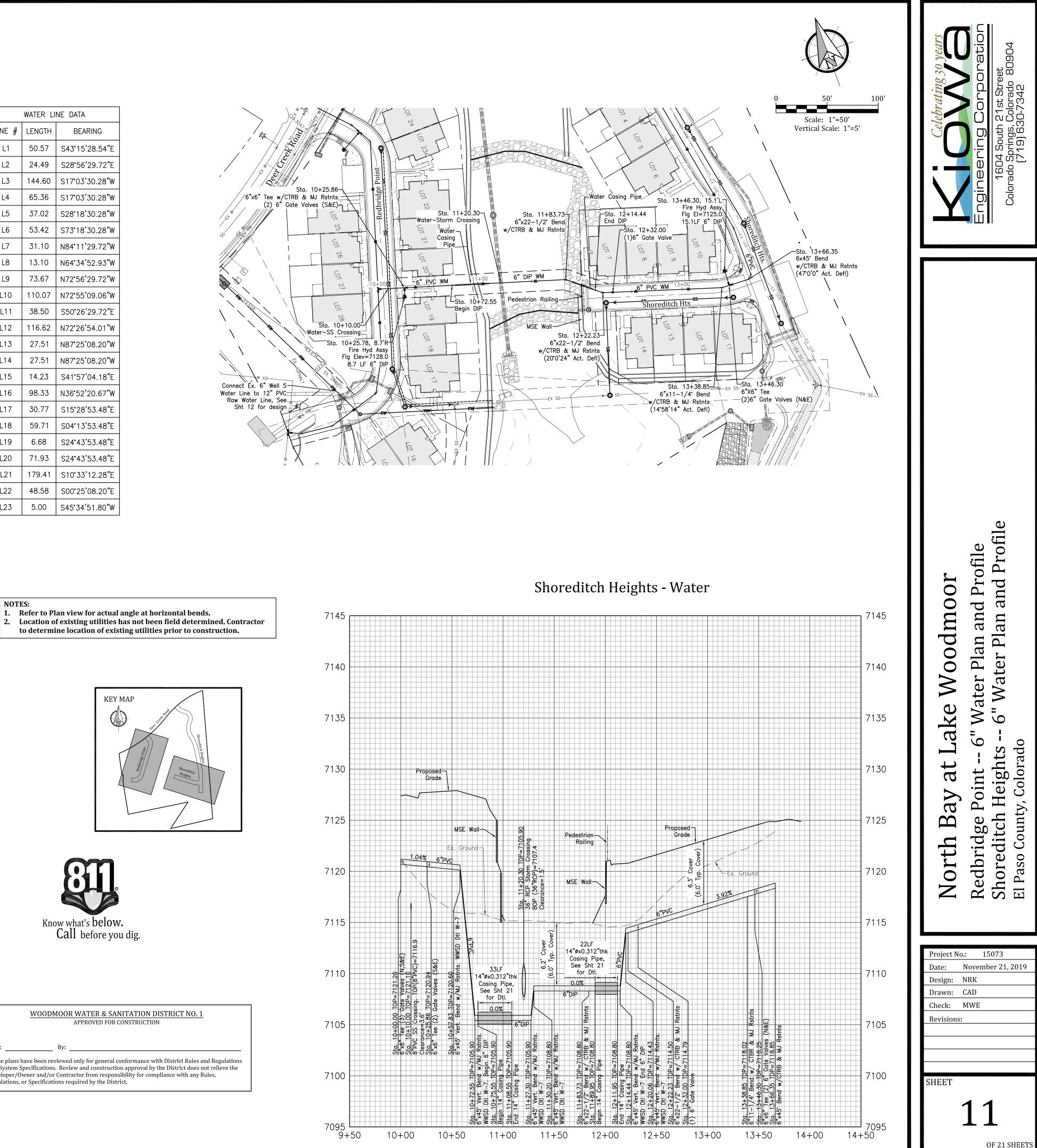






WATER LINE DATA								
LINE #	LENGTH	BEARING						
L1	50.57	S43°15'28.54"E						
L2	24.49	S28°56'29.72"E						
L3	144.60	S17°03'30.28"W						
L4	65.36	S17°03'30.28"W						
L5	37.02	S28°18'30.28"W						
L6	53.42	S73°18'30.28"W						
L7	31.10	N84°11'29.72"W						
L8	13.10	N64°34'52.93"W						
L9	73.67	N72 <b>°</b> 56'29.72"W						
L10	110.07	N72 <b>°</b> 55'09.06"W						
L11	38.50	S50°26'29.72"E						
L12	116.62	N72°26'54.01"W						
L13	27.51	N87°25'08.20"W						
L14	27.51	N87°25'08.20"W						
L15	14.23	S41°57'04.18"E						
L16	98.33	N36°52'20.67"W						
L17	30.77	S15°28'53.48"E						
L18	59.71	S04°13'53.48"E						
L19	6.68	S24°43'53.48"E						
L20	71.93	S24°43'53.48"E						
L21	179.41	S10°33'12.28"E						
L22	48.58	S00°25'08.20"E						
L23	5.00	S45°34'51.80"W						

NOTES:



7145

7140

7135

7130

7125

7120

7110

7105

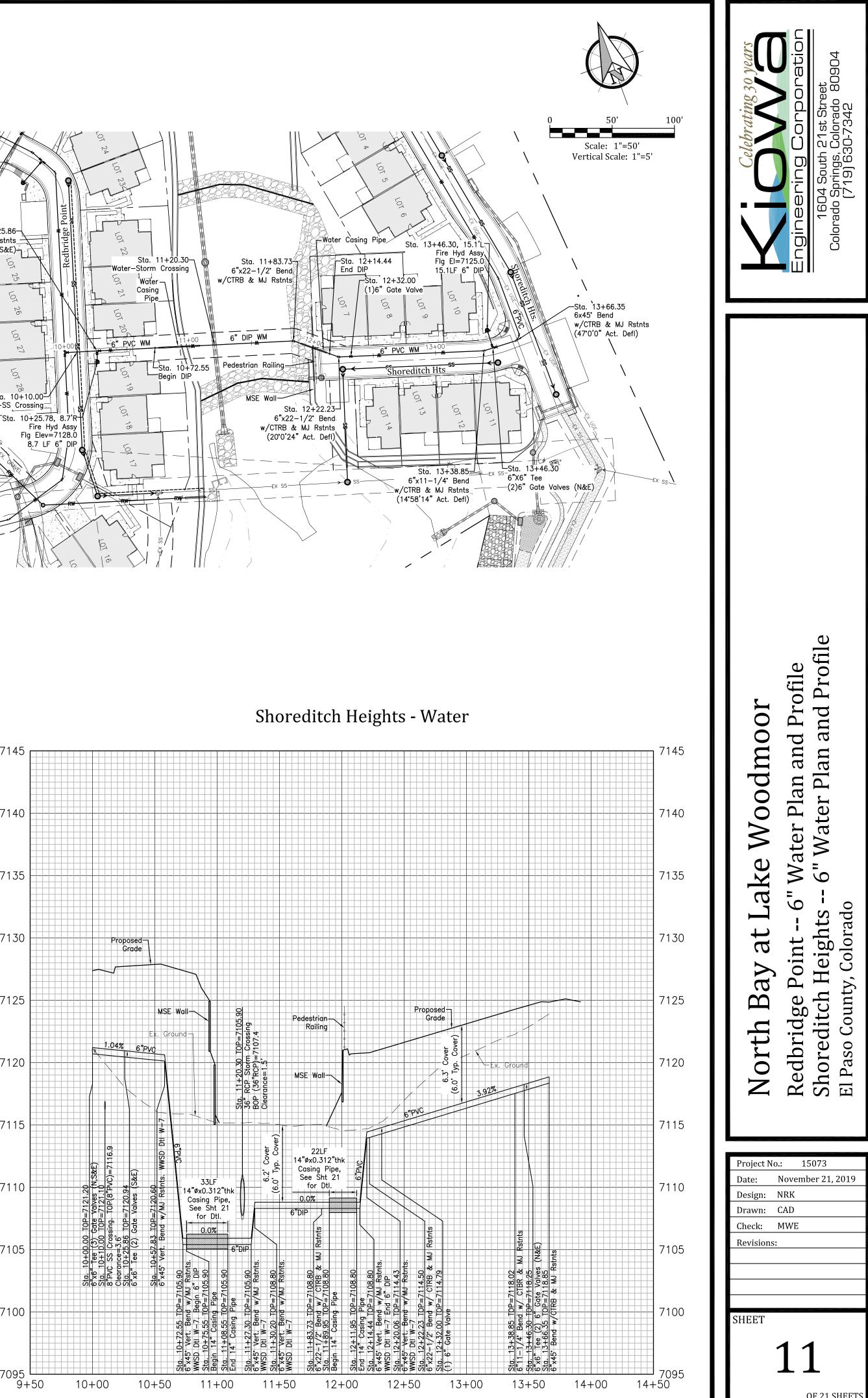
7100

WOODMOOR WATER & SANITATION DISTRICT NO. 1 APPROVED FOR CONSTRUCTION These plans have been reviewed only for general conformance with District Rules and Regulations and System Specifications. Review and construction approval by the District does not relieve the Developer/Owner and/or Contractor from responsibility for compliance with any Rules, Regulations, or Specifications required by the District.

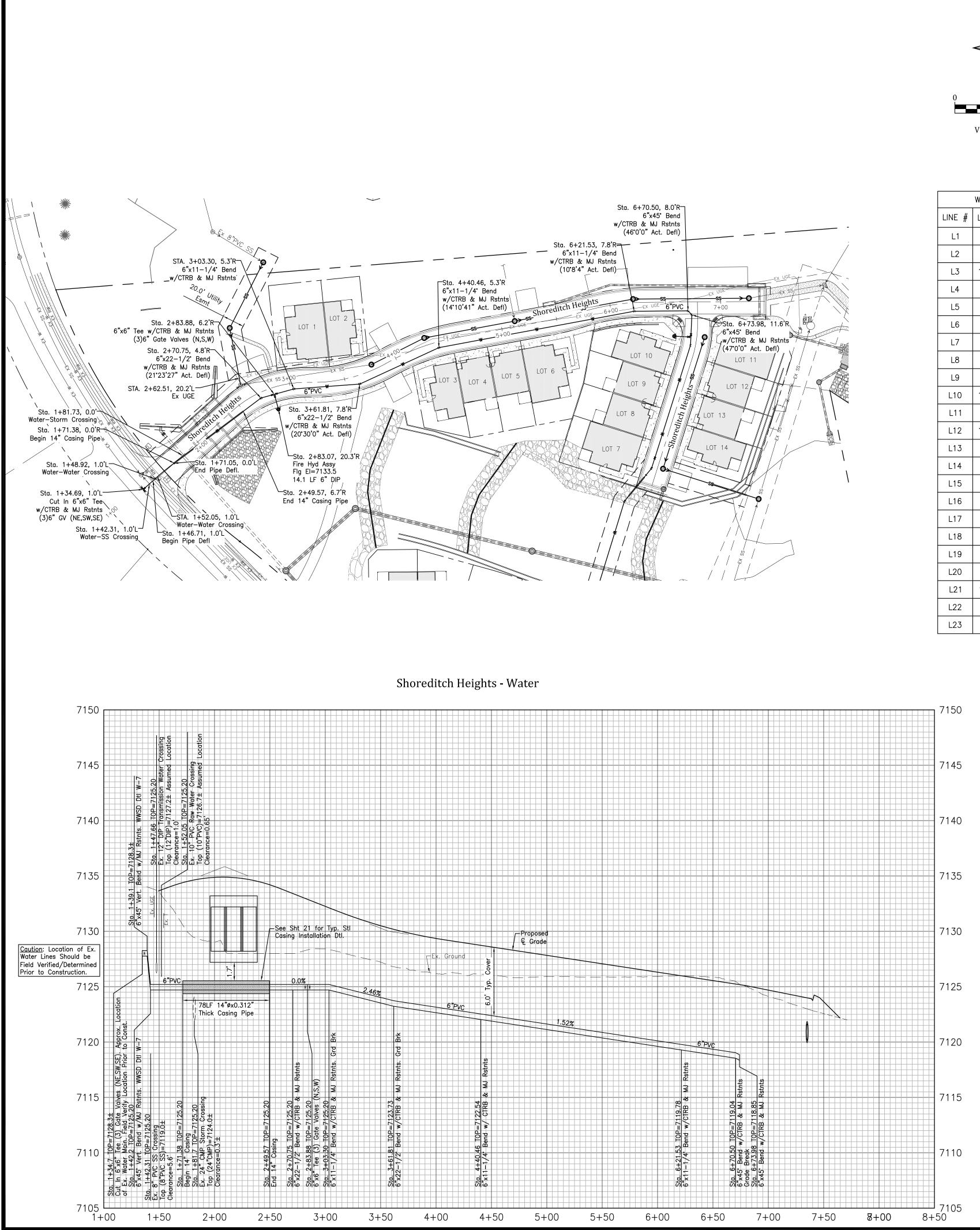
Know what's below. Call before you dig.

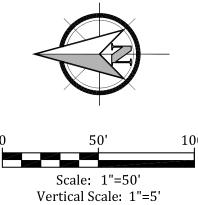
1. Refer to Plan view for actual angle at horizontal bends.

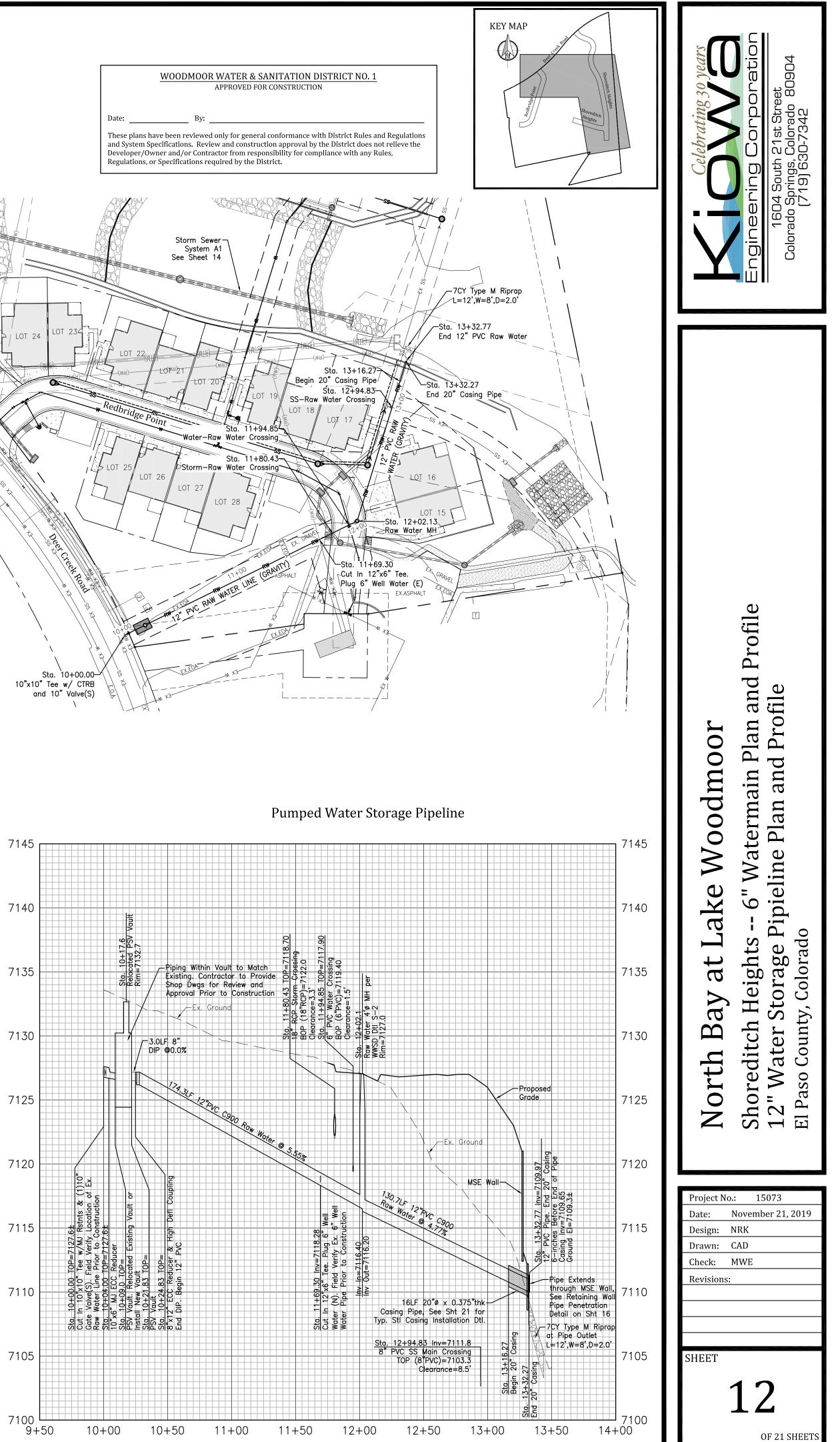
KEY MAP

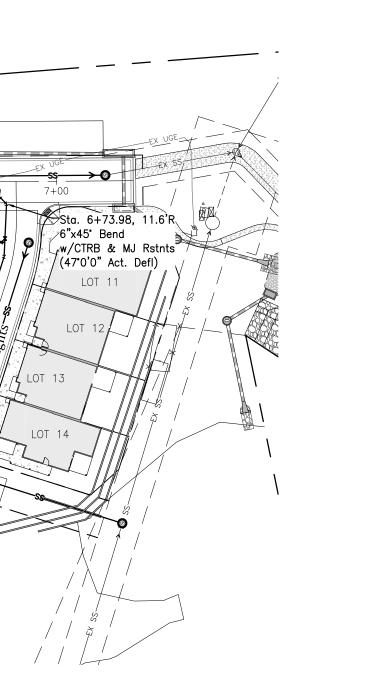


7095



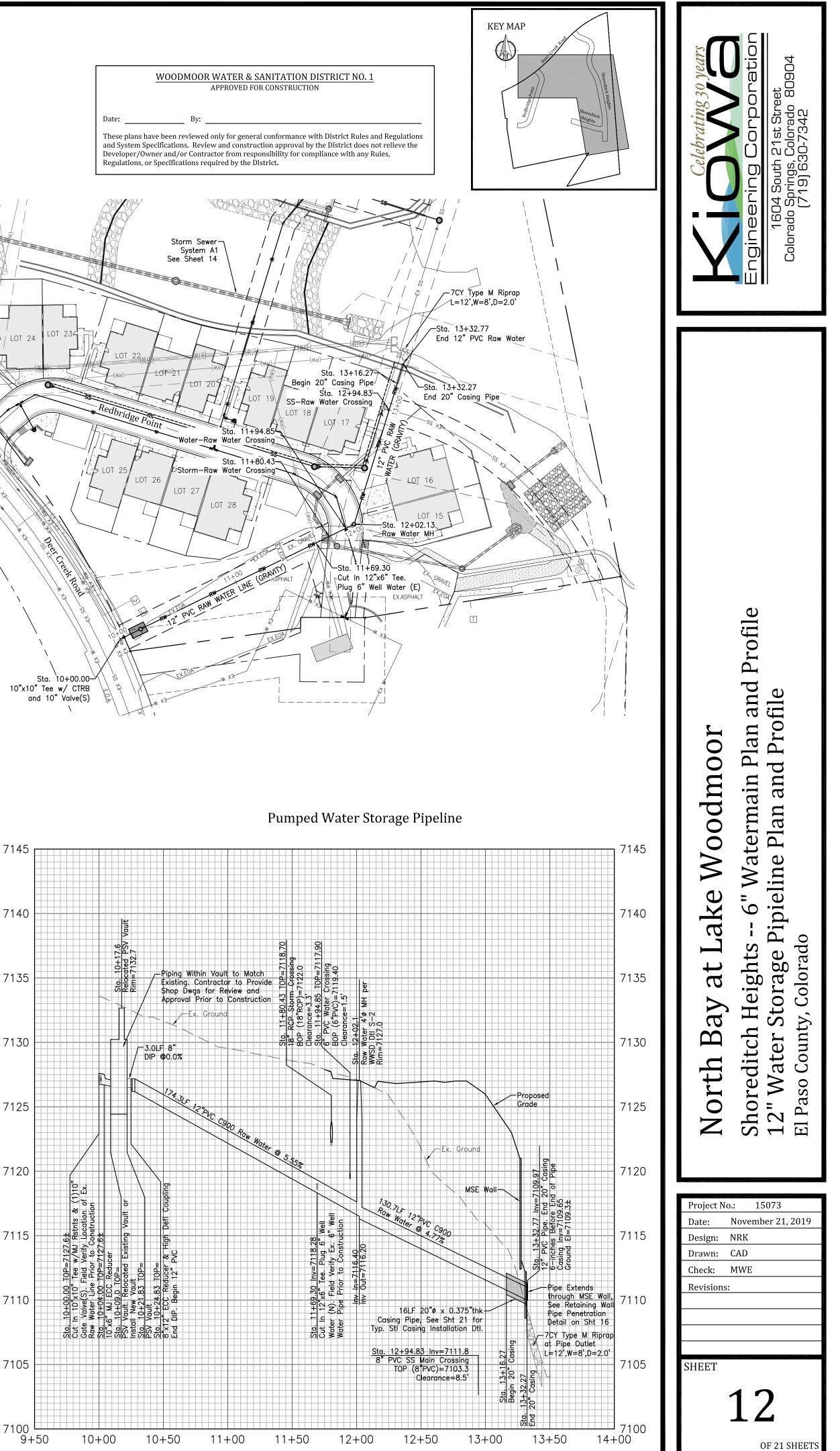




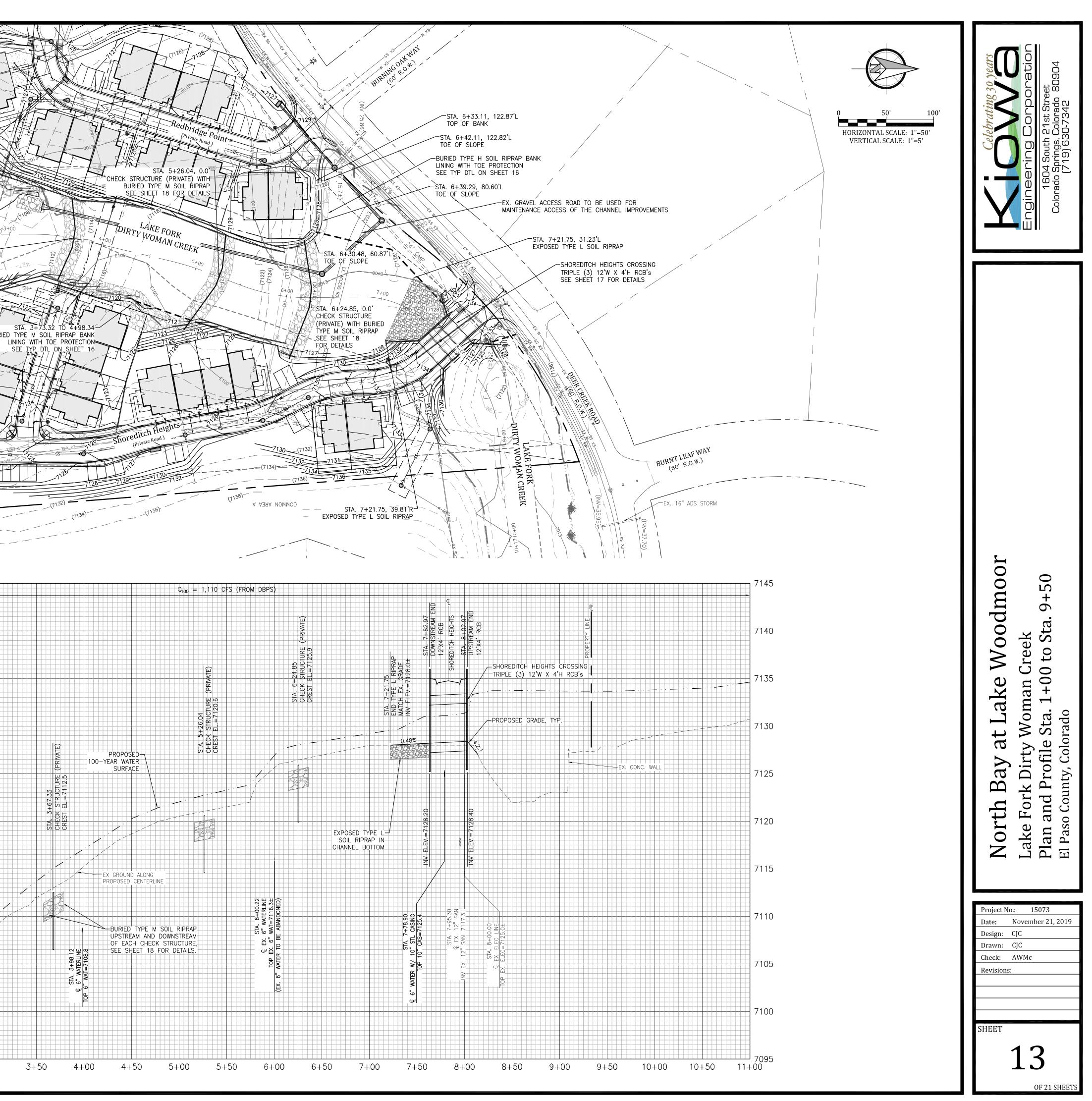


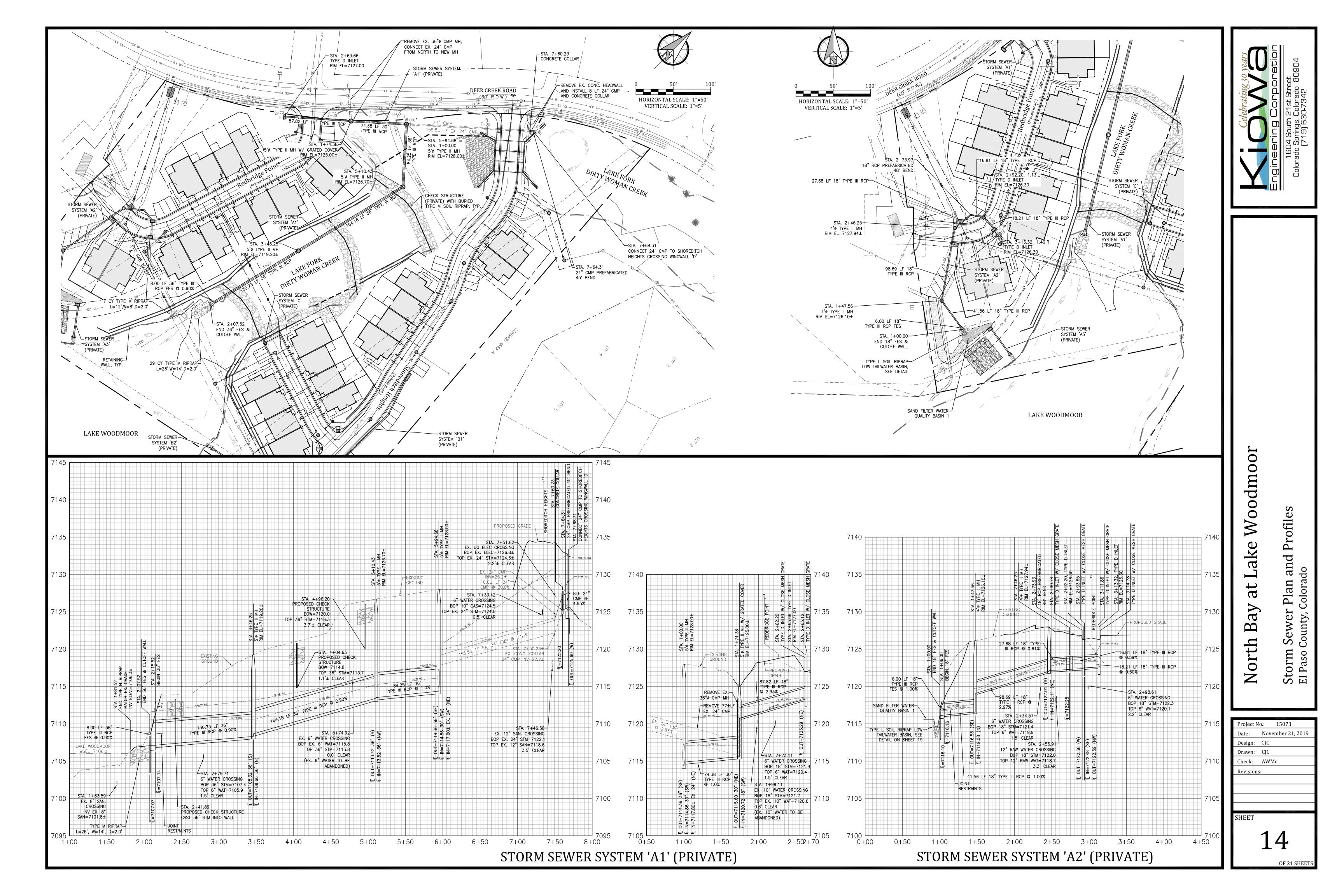
WATER LINE DATA									
LINE #	LENGTH	BEARING							
L1	50.57	S43°15'28.54"E							
L2	24.49	S28°56'29.72"E							
L3	144.60	S17°03'30.28"W							
L4	65.36	S17°03'30.28"W							
L5	37.02	S28°18'30.28"W							
L6	53.42	S73°18'30.28"W							
L7	31.10	N84°11'29.72"W							
L8	13.10	N64°34'52.93"W							
L9	73.67	N72°56'29.72"W							
L10	110.07	N72°55'09.06"W							
L11	38.50	S50°26'29.72"E							
L12	116.62	N72°26'54.01"W							
L13	27.51	N87°25'08.20"W							
L14	27.51	N87°25'08.20"W							
L15	14.23	S41°57'04.18"E							
L16	98.33	N36°52'20.67"W							
L17	30.77	S15°28'53.48"E							
L18	59.71	S04°13'53.48"E							
L19	6.68	S24°43'53.48"E							
L20	71.93	S24°43'53.48"E							
L21	179.41	S10°33'12.28"E							
L22	48.58	S00°25'08.20"E							
L23	5.00	S45°34'51.80"W							

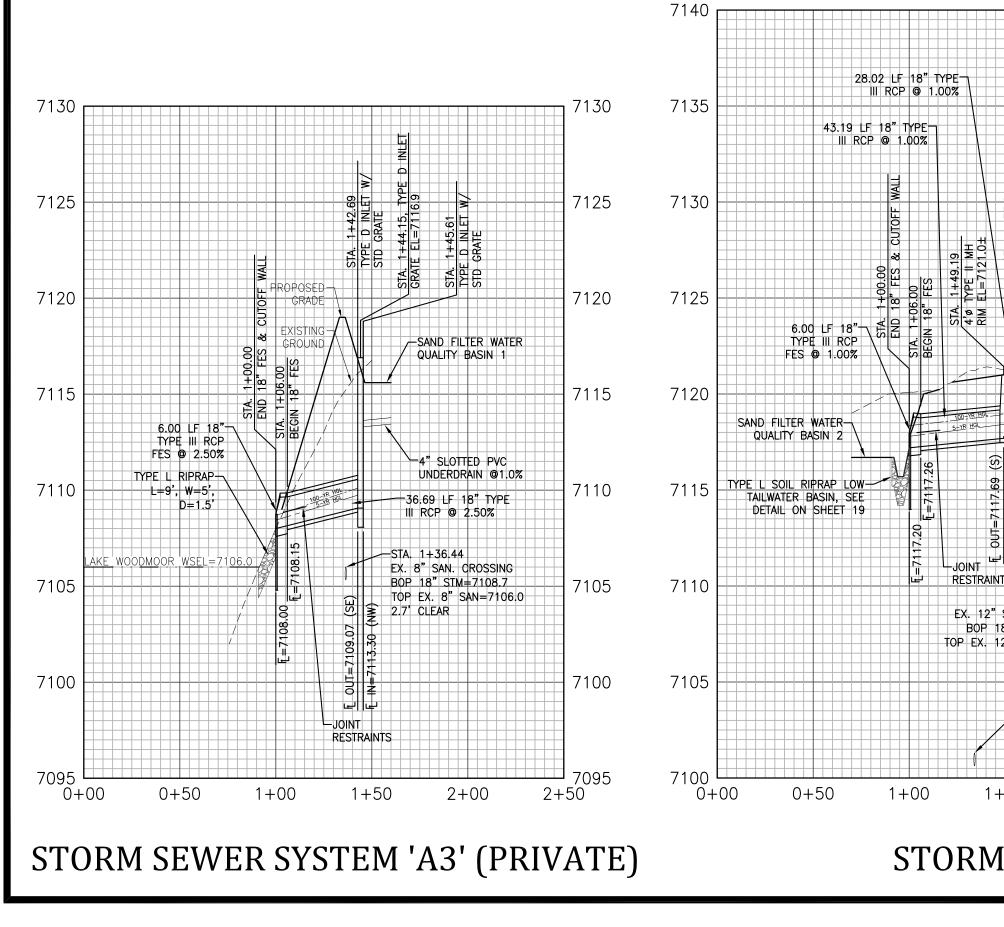
Know what's below. Call before you dig.



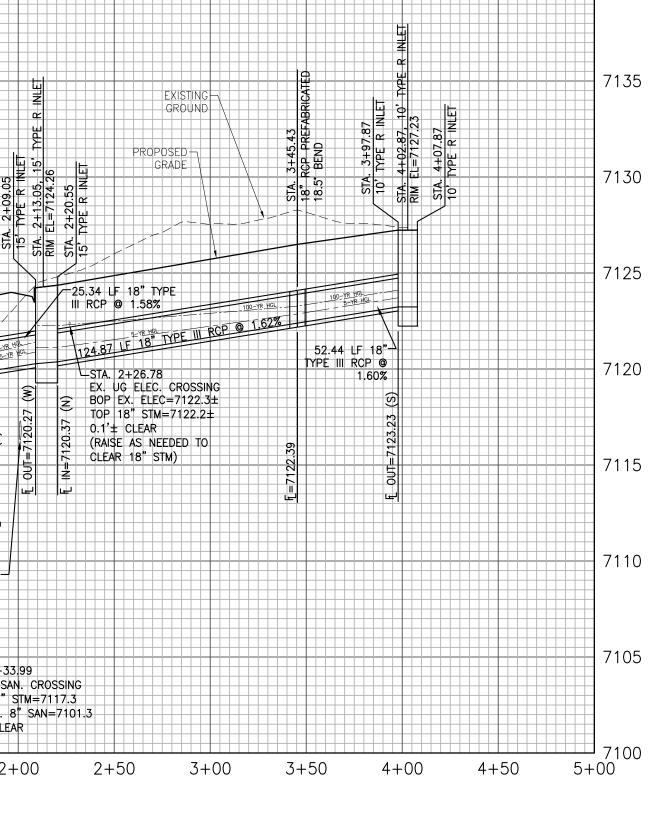
	LEGEND						\	10A			ġ.				$\leq$	$\searrow$	Ż		$\checkmark$	B
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	EXISTING FIRE HYDRANT						, ,			11		K		20	R			712		A IIN A
₩ N	EXISTING WATER VALVE							(860L)							NIF	HA		<u>d</u>	U-	4 10 10 10
©Ex w	EXISTING SANITARY SEWER MANHOLE EXISTING WATER LINE															125	K		-	F
(W)	EX. WATER LINE TO BE REMOVED OR RELOCATED							$\sim$			X.		<i>9</i> 92		J))	MA		_		]
EX_SS	EXISTING SANITARY SEWER EX. SANITARY SEWER TO BE REMOVED OR RELOCATED											<u> </u>				<u>t</u> AN		7	1	
EX STM	EXISTING STORM SEWER									\$\]		1 Alexandre	Ŵ				HE -		The	
(STM)	EXISTING STORM SEWER TO BE REMOVED OR RELOCATED EXISTING UNDERGROUND ELECTRIC LINE									1 <	1.1	1		<u>_</u> }		IHE			$\mathbf{X}$	; /
———ЕХ Т———	EXISTING UNDERGROUND TELEPHONE LINE		]	LAKE	WOC	DM	100R	R			Į								$\bigcirc$	
<u>→ w</u>	PROPOSED WATER LINE OR SERVICE AND VALVE PROPOSED SANITARY SEWER AND MANHOLE										١		·				L'			
	PROPOSED STORM SEWER PIPE							7				- 11		-			Ex-			
	PROPOSED STORM SEWER MANHOLE							1×0	20			/ /		<u> </u>	<u> </u>	<u> </u>	(7104) WE			
	PROPOSED STORM CURB INLET PROPOSED STORM GRATED INLET									` _	_ \	· \	i					$\leq$		Þ
7130	EXISTING CONTOURS										· ~		1	2+00			(7106	»)—/	× 13+	> -0i
7125	PROPOSED CONTOURS															$\int$			3 V /	ť
	PROPOSED CONDITION 100-YEAR FLOODPLAIN EXISTING CONDITION 100-YEAR FLOODPLAIN		E	100		_	_				S	ΓΑ. 3	، ا +67.	33, C	).0 <b>'</b> —		/	7	VX	_
E100	EXISTING 100-YEAR FEMA FLOODPLAIN (FIS)	/ /_/ m		-(7102			E100-	(7098)	2	(	С	HECK	STR	UCTU BUR	RE			-1	4KT	
<b>— — — — —</b>	PROPOSED 100–YEAR FLOODWAY EXISTING 100–YEAR FEMA FLOODWAY (FIS)	-						$\widehat{}$			TYP	ΕМ	SOIL	RIPR DETA	RAP		1.5			
	PROPOSED PROPERTY BOUNDARY		(7112)	1			-(>108)	(710)		E100				11	÷.,		FE100-	Ħ	$\langle \rangle$	1
	PROPOSED LOT LINE EXISTING R.O.W./PROPERTY BOUNDARY	1 1			(7114)-	FO,		Ì	9) (TIC	24) W		$\sim$	т. Г			(7104)	[7108]	9	<b>A</b>	Ę
	EXISTING EASEMENT PROPOSED EASEMENT		_	<u> </u>	١				N			Z		RI-			S.	Ĥ	BURIED	)
	EXISTING WETLANDS AREA	·		(712	_1_	1		118)				` ~		T	T =				L	
	EXPOSED TYPE L SOIL RIPRAP			~ _	$\bar{f}$	>12x1	≁©( [	X	$\mathbb{Z}$				 	f	4+1			$\Rightarrow$		
	EXPOSED TYPE M SOIL RIPRAP EXPOSED TYPE H SOIL RIPRAP				·		10		$\langle h \rangle$	R	Ð			H	$\leq $	Ĺ		1		X
	BURIED TYPE M SOIL RIPRAP				~ ]		1/							$\mathbf{x}$		11 S	T			_
50	BURIED TYPE H SOIL RIPRAP				/	1-	) i N	LINDO			E!!			/]^_	Z/		$\mathcal{L}$			7
	GRAVEL				_	$\overline{\nu}$	$\langle f \rangle$			///	IJ,	N.	Ð			a	44	a		]
						ľ	$\langle \rangle$			\ \		Ì			R		2		Ľ	Z
						$\geq$	$I \setminus $	17:30	(1132)	`\'					<			-0-	<del>S</del>	/ (89  S-
					1		\			$\setminus$	Ì	L		A.		Ass X	XJ		106	
					-(142)-		(27,3A)		)	/	\	_	— : /	¥<						
					ت \		Å	/\	(2734)	-/			_/		(7	128)				
					(44 +	<u>F</u>			/ (	,		. /-					—	—		
					ĩ	٢١	/			$\overline{\}$	/						_			
								` —									-		~ `	
						/	`													
	74.45																			
	7145																			
																				-
	7140																			
																				_
																				_
	7135																			-
																				_
																				_
	7130																			-
																				+
	7125																			7
																				-
	7120																			+
																				+
	7115									- P-										
										U Z										-
										ZERT Z										
	7110									PROP										3
						WOO		R WSFI	_=7106	.0										+
	7105																			
	, , , , , , , , , , , , , , , , , , , ,				LAKF								,/							
				WC	LAKE DODMO	OR							.* + +							
	7100																9.48 SAN 1.6±			
	7100																2+75 8" 7101			+
																	STA. 2			
	7005																N N			
	7095 <sup>[</sup> 0+	00	0-	+50		1+	-00		1+5	0	_	2+	00	_	2+	-50		3+	00	-

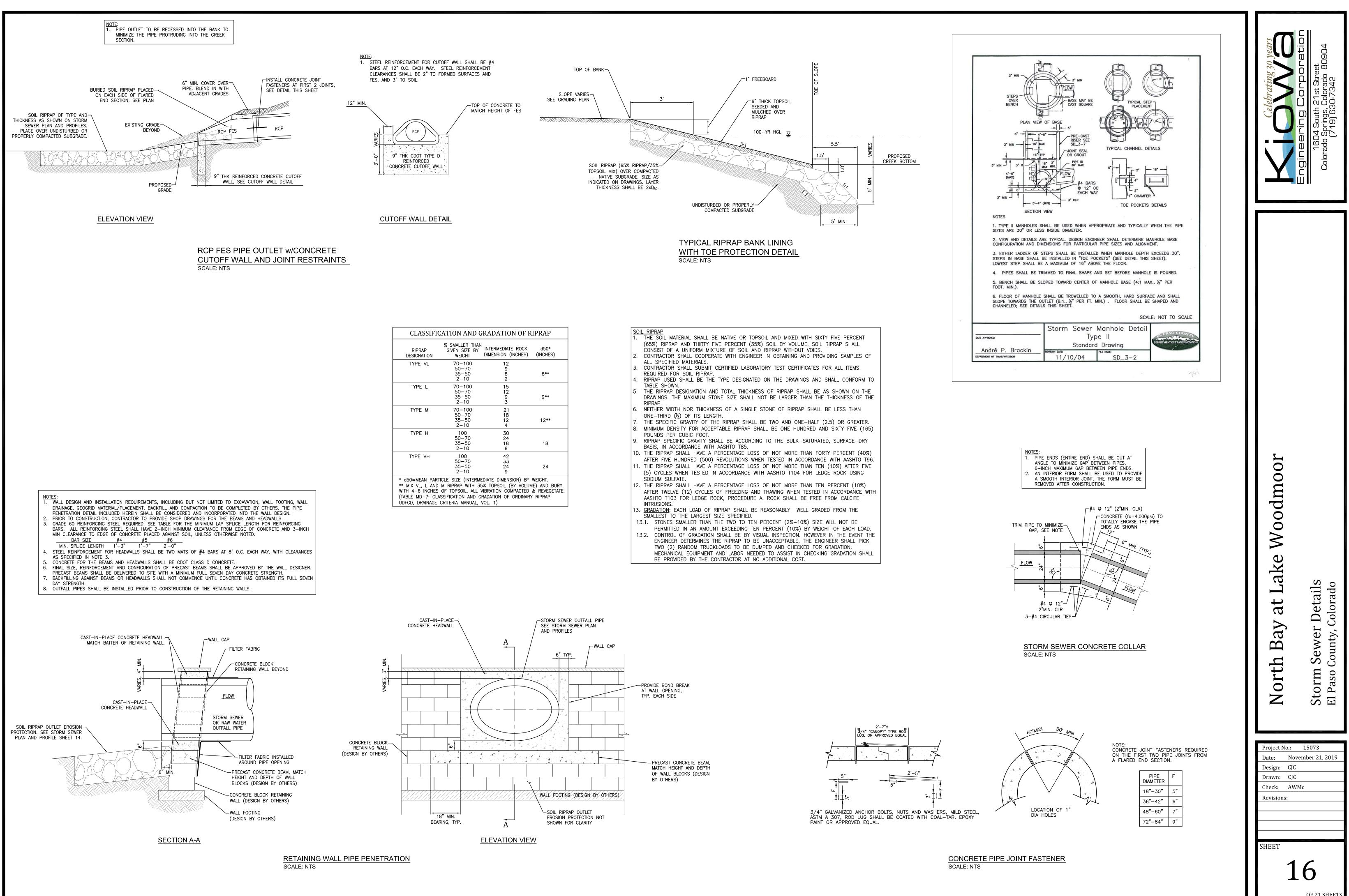


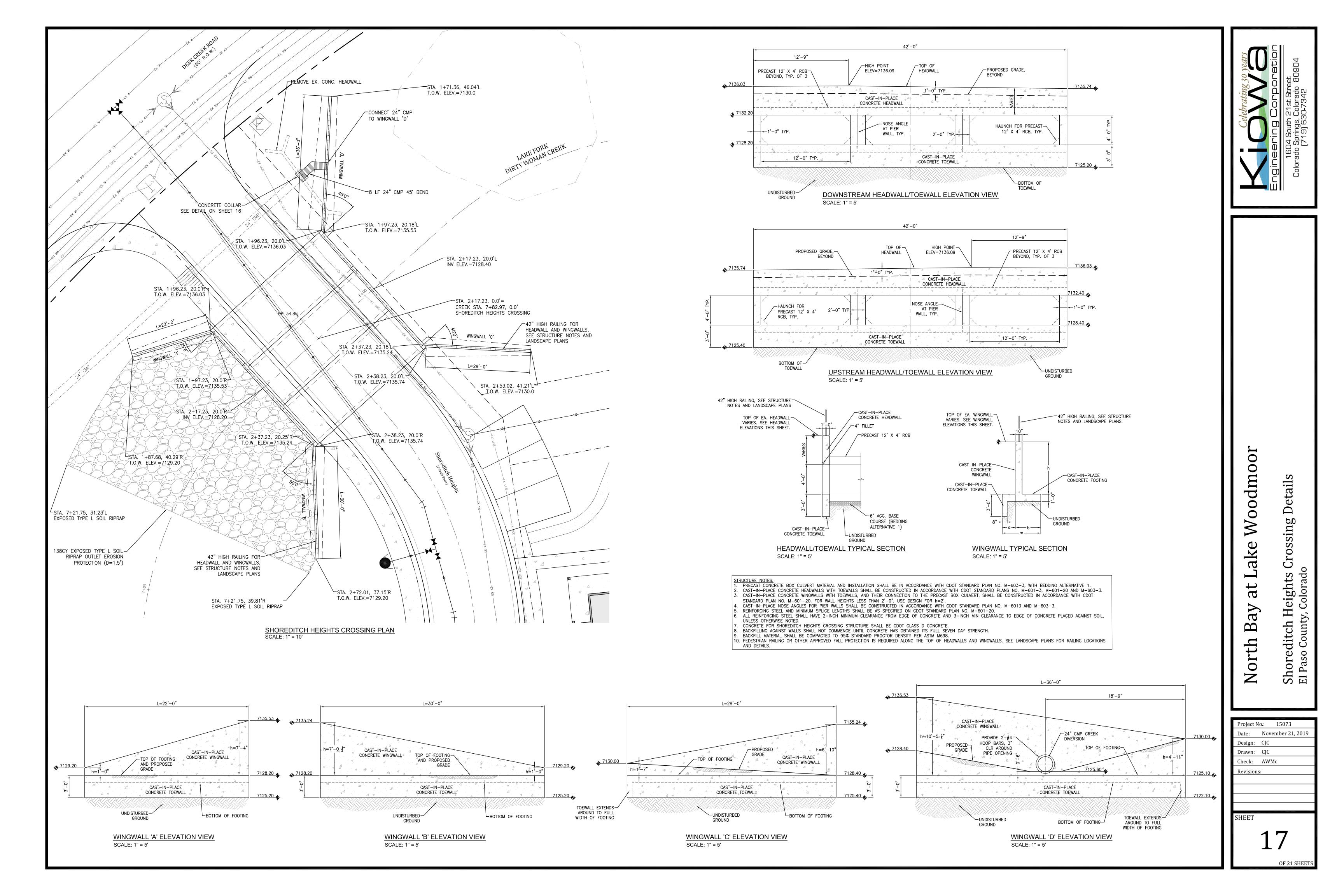


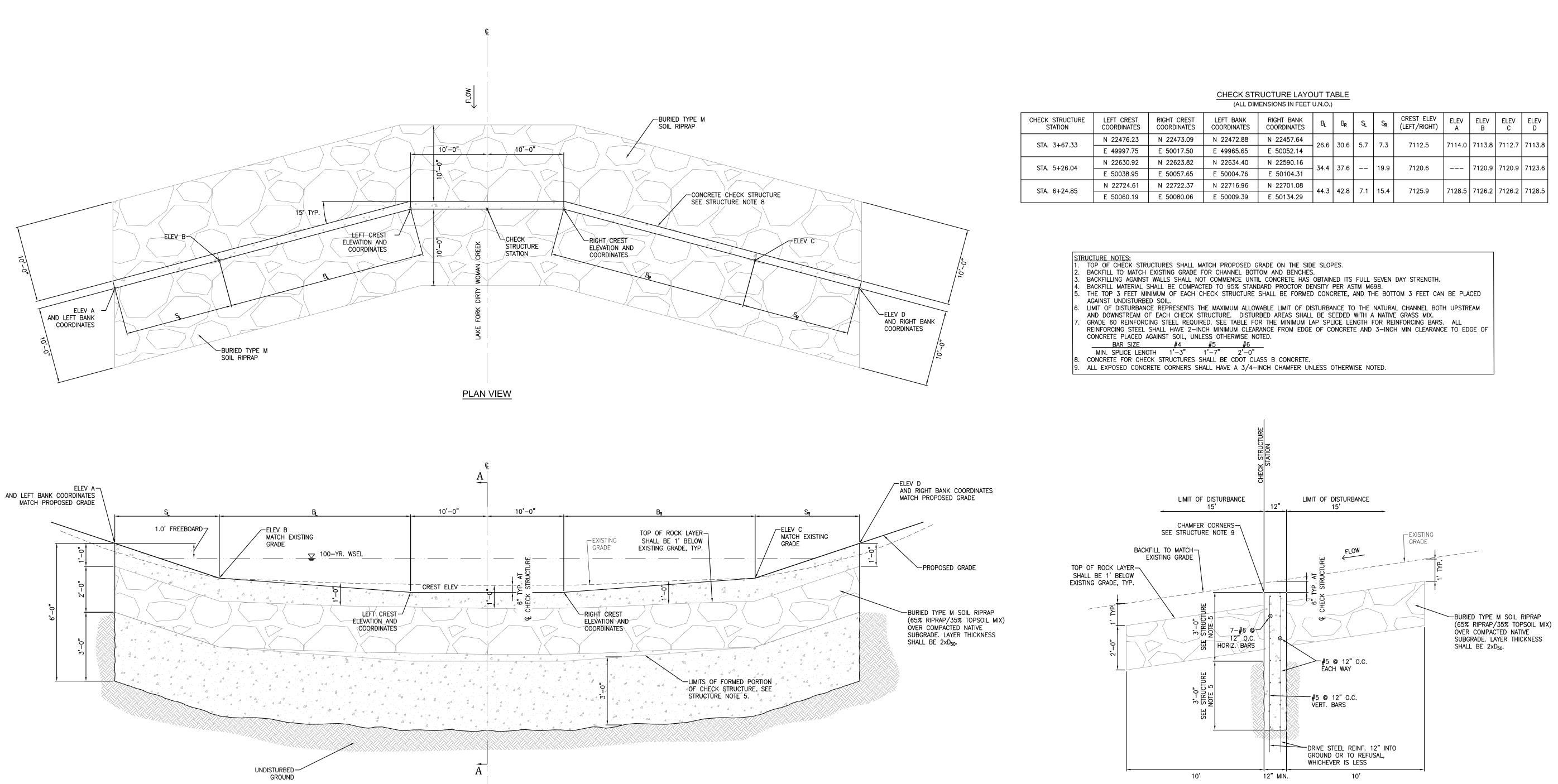


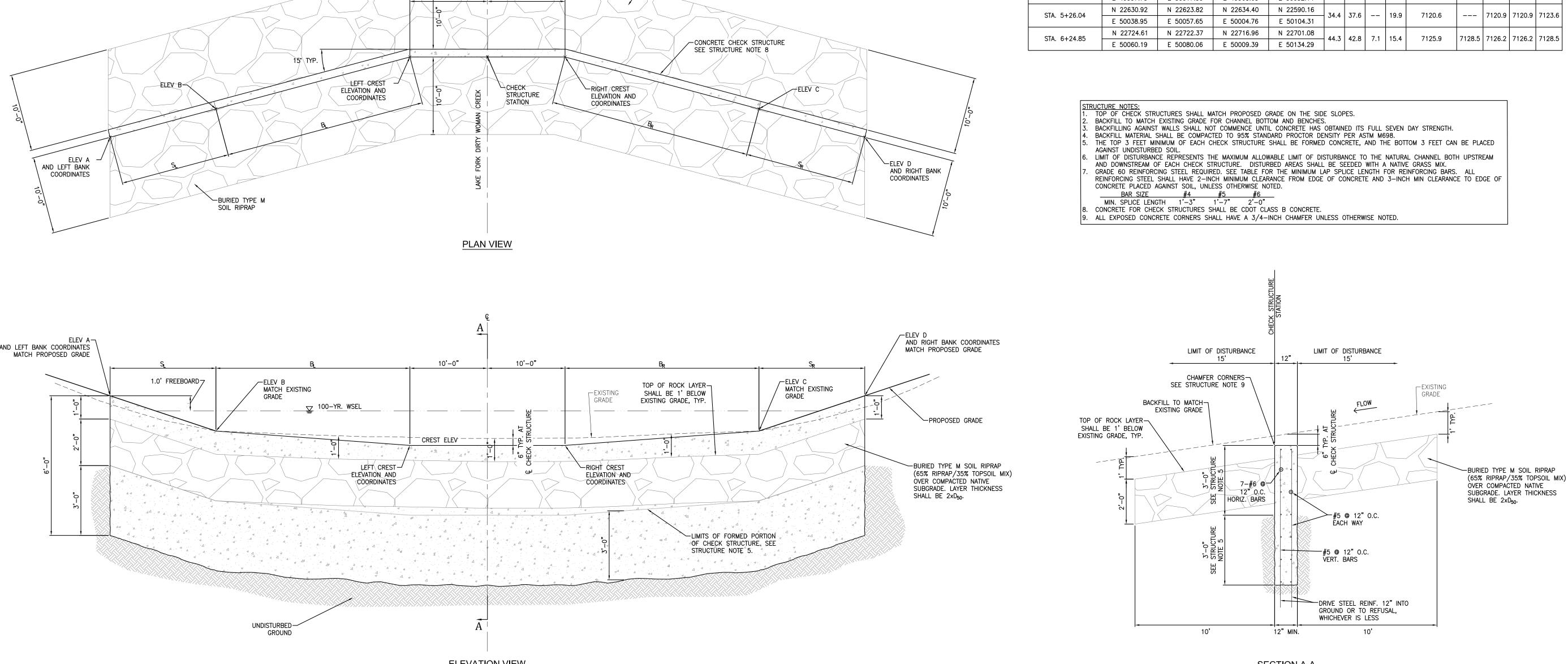












ELEVATION VIEW (LOOKING UPSTREAM)

CHECK STRUCTURE DETAILS (PRIVATE) NTS

Г 5	LEFT BANK COORDINATES	RIGHT BANK COORDINATES	В	B <sub>R</sub>	S	S <sub>R</sub>	CREST_ELEV (LEFT/RIGHT)	ELEV A	ELEV B	ELEV C	ELEV D
)	N 22472.88	N 22457.64	26.6	30.6 5.7		7.3	7112.5	7114.0	7113.8	7112.7	7113.8
)	E 49965.65	E 50052.14	20.0	50.0	5.7	7.5	7112.5	/114.0	7115.0	/112./	7115.0
	N 22634.40	N 22590.16	34.4	37.6		19.9	7120.6		7120.9	7120.9	7123.6
	E 50004.76	E 50104.31	54.4	57.6		19.9	/120.0		/120.9	/ 120.9	/125.0
	N 22716.96	N 22701.08	44.3	42.8	7.1	15.4	7125.9	7128.5	7106.0	7126.2	7128.5
	E 50009.39	E 50134.29	++.J	42.0	7.1	13.4	/125.9	/120.3	/120.2	/120.2	/120.3

SECTION A-A



Structure Details County, Colorado Check El Paso (

0

mo

d

0

0

 $\geq$ 

Lake

at

ay

Β

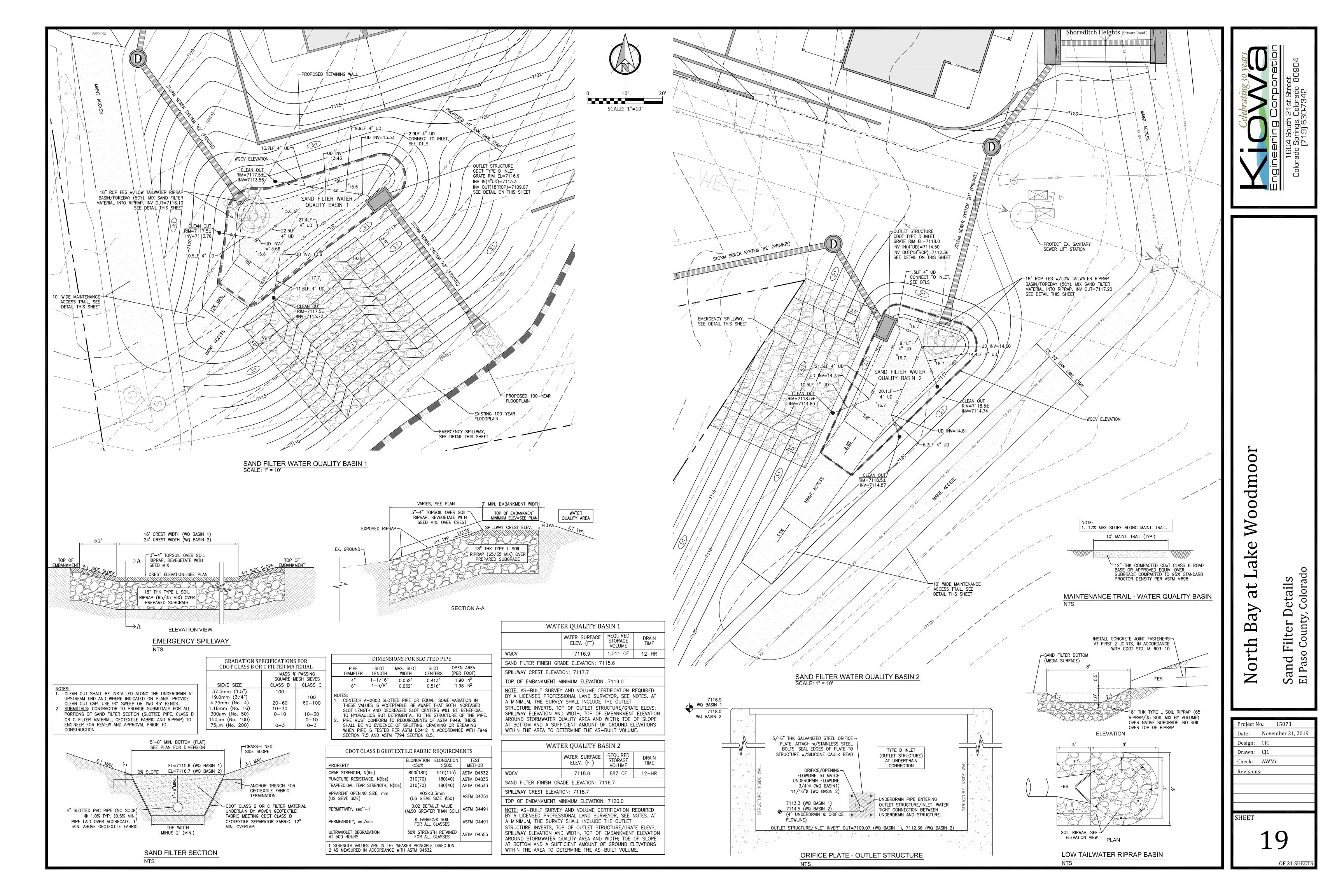
orth

Z

Project N	lo.: 15073
Date:	November 21, 2019
Design:	CJC
Drawn:	CJC
Check:	AWMc
Revision	s:

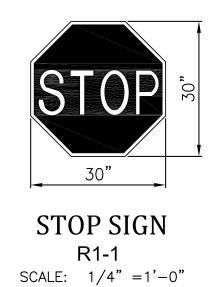
SHEET

18





- 1. STOP SIGN PLACEMENT LOCATIONS SHALL BE PER SECTION 2B-9 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION AND CDoT S-614-1.
- 2. LOCATION AND EXTENT OF FIRE LANE STRIPING SHALL BE COORDINATED WITH THE TRI-LAKES MONUMENT FIRE PROTECTION DISTRICT.



## SIGN DETAILS

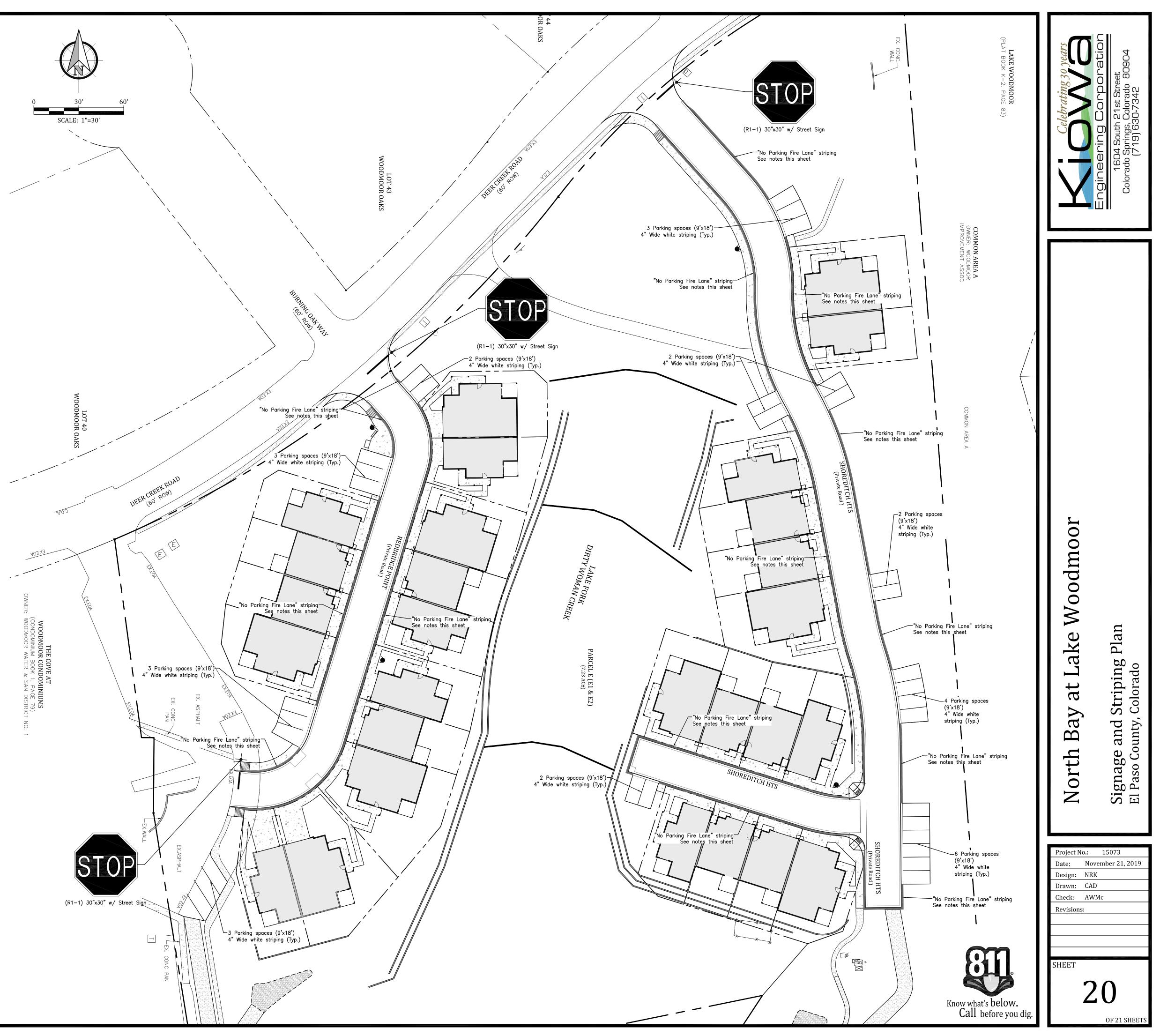


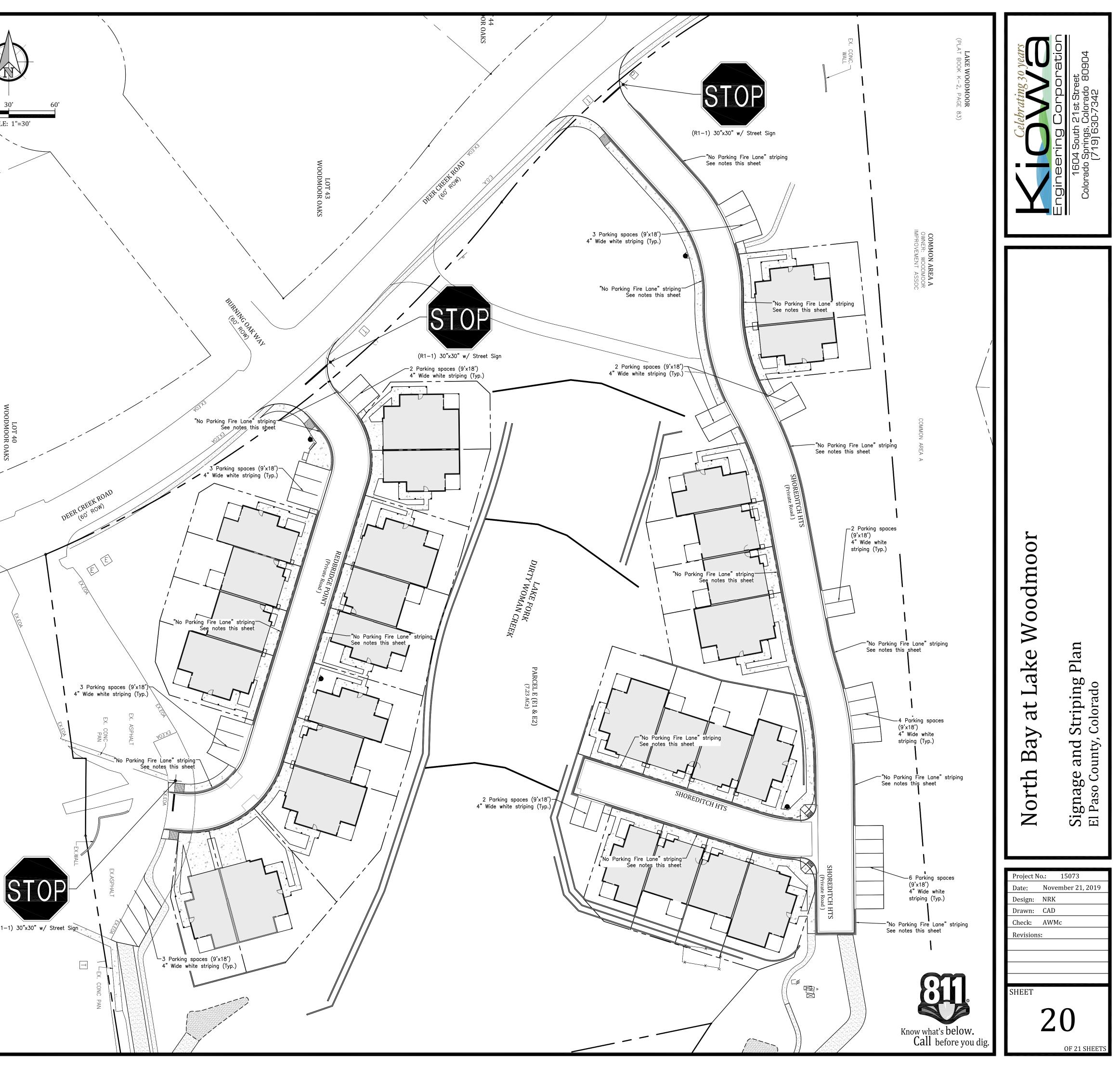
## FIRE LANE MARKING

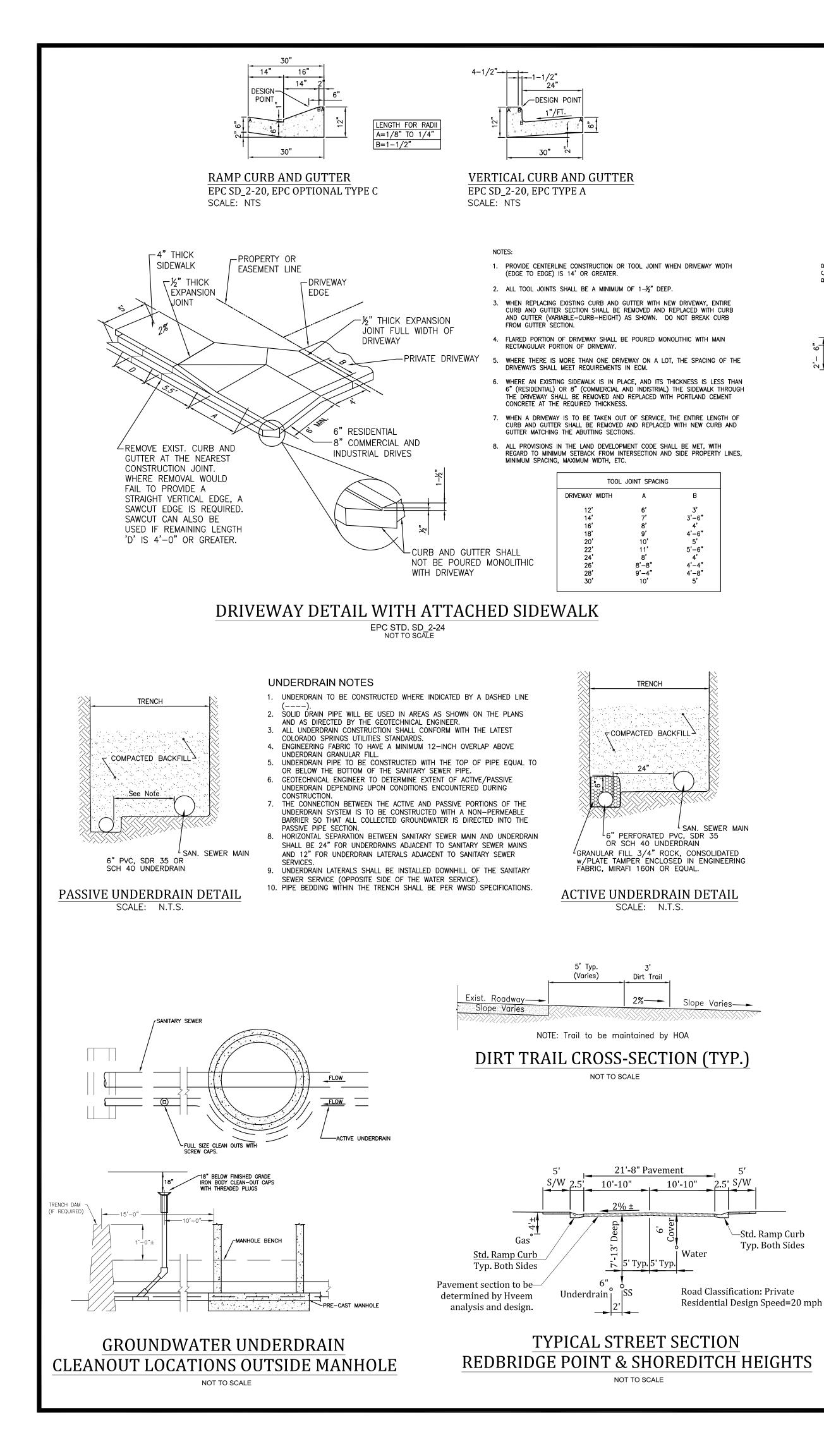
- When striping is used to identify fire apparatus access roads, the striping shall comply with Tri-Lakes Monument Fire Protection District requirements. All striping used for marking of fire lanes must meet the following criteria:
- 6-inch red traffic paint stripe
- 4-inch white reflective lettering/wording with 3/4-inch stroke stating
- "No Parking Fire Lane" • Lettering/wording spaced every 25 feet
- Installations. The striping must be placed along the entire length of the fire lane. When no curb is available, the red stripe is placed directly on the roadway. When curbing is available, the red stripe is placed on the curb face and top of curb. It is important to note that currently, the use of striping for fire lane markings is limited to private roadways. The use of striping noted here is not permitted for use on public roadways.
- Signage combined with striping. When striping with the required lettering is provided, signage is not required. However, if the red striping *without* the required lettering is installed, approved fire lane signage is required. The marking must identify the zone as a fire lane. The red striping alone does not do this, hence the requirement of the signage. Therefore, when marking a fire lane, the required lettering is typically provided with the red striping to prevent additional costs from signage installations.

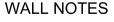
### EL PASO COUNTY STANDARD SIGNING AND STRIPING NOTES:

- All signs and pavement markings shall be in compliance with the current Manual on Uniform Traffic Control Devices (MUTCD). Removal of existing pavement markings shall be accomplished by a method that does not materially damage the pavement. The pavement markings shall be removed to the extent that they will not be visible under day or night conditions. At no time will it be acceptable to paint over existing pavement markings.
- Any deviation from the striping and signing plan shall be approved by El Paso County Planning and Community Development. All signs shown on the signing and striping plan shall be new signs. Existing signs may remain or be reused if they meet current El
- Paso County and MUTCD standards. Street name and regulatory stop signs shall be on the same post at intersections.
- All removed signs shall be disposed of in a proper manner by the contractor.
- All street name signs shall have "D" series letters, with local roadway signs being 4" upper-lower case lettering on 8" blank and non-local roadway signs being 6" lettering, upper-lower case on 12" blank, with a white border that is not recessed. Multi-lane roadways with speed limits of 40 mph or higher shall have 8" upper-lower case lettering on 18" blank with a white border that is not recessed. The width of the non-recessed white borders shall match page 255 of the 2012 MUTCD "Standard Highway Signs" All traffic signs shall have a minimum High Intensity Prismatic grade sheeting.
- All local residential street signs shall be mounted on a 1.75" x 1.75" square tube sign post and stub post base. For other applications, refer to the CDOT Standard S-614-8 regarding use of the P2 tubular steel post slipbase design.
- 10. All signs shall be single sheet aluminum with 0.100" minimum thickness.
- 1. All limit lines/stop lines, crosswalk lines, pavement legends, and arrows shall be a minimum 125 mil thickness preformed thermoplastic pavement markings with tapered leading edges per CDOT Standard S-627-1. Word and symbol markings shall be the narrow type. Stop bars shall be 24" in width. Crosswalks lines shall be 12" wide and 8' long per CDOT S-627-1.
- 2. All longitudinal lines shall be a minimum 15 mil thickness epoxy paint. All non-local residential roadways shall include both right and left edge line striping and any additional striping as required by CDOT S-627-1.
- 3. The contractor shall notify El Paso County Planning and Community Development (719) 520-6819 prior to and upon completion of signing and striping.
- 4. The contractor shall obtain a work in the right of way permit from the El Paso County Department of Public Works (DPW) prior to any signage or striping work within an existing El Paso County roadway.

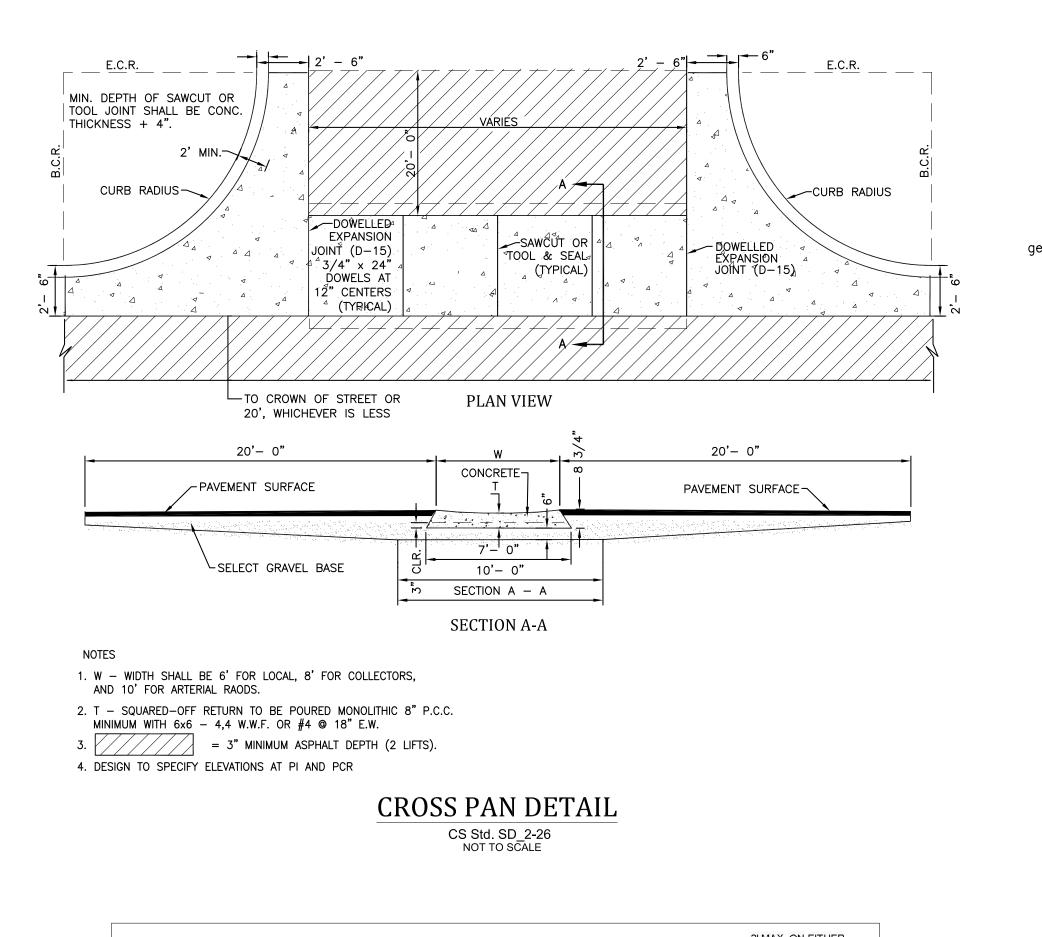


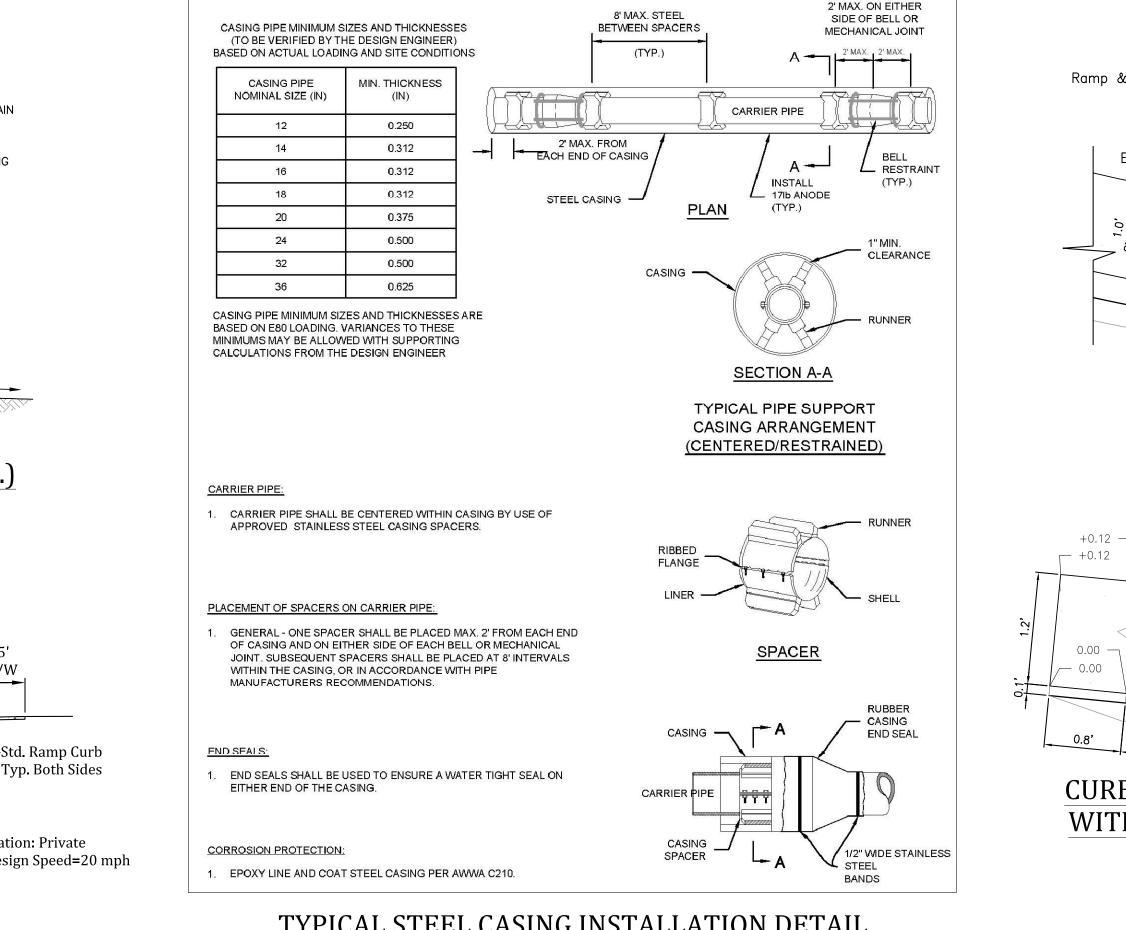






- 1. WALL COLOR SELECTION AND SHOP DRAWINGS DEPICTING THE DESIGN OF THE MODULAR BLOCK WALL SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO CONSTRUCTION FOR APPROVAL. DESIGN SHALL BE COMPLETED UNDER THE DIRECT SUPERVISION OF A PROPERLY REGISTERED PROFESSIONAL ENGINEER WITH THE STATE OF COLORADO.
- FINAL CONSTRUCTION DRAWINGS SHALL BEAR HIS/HER SEAL AND SIGNATURE. 2. REFER TO SHOP DRAWINGS FOR DESIGN OF WALL, WALL FOUNDATION AND AREA BEHIND WALL.
- 3. VERIFY AND INSTALL ALL WALLS PER THE MANUFACTURER'S RECOMMENDATIONS. 4. TW=TOP OF WALL. BW=BOTTOM OF EXPOSED WALL, ELEVATION DOES NOT INCLUDE BURIED DEPTH OF WALL. WALL DESIGNER TO DETERMINE BURY DEPTH OF WALL.
- CAPSTONE TO BE ATTACHED TO THE TOP OF WALL WITH ALL-WEATHER ADHESIVE.
  PEDESTRIAN RAILING OR OTHER APPROVED FALL PROTECTION IS REQUIRED ALONG THE TOP OF WALLS THAT HAVE AN EXPOSED HEIGHT EQUAL TO OR GREATER THAN 30-INCHES AND ARE ADJACENT TO PEDESTRIAN ROUTES AND/OR SIDEWALKS. SEE LANDSCAPE PLANS FOR RAILING LOCATIONS AND DETAILS.





TYPICAL STEEL CASING INSTALLATION DETAIL

