

**BENCHMARK**  
 MONUMENT NAME 10 GPS MONU 1995 IS A BRASS CAP SET IN CONCRETE STAMPED "CITY OF PEARLAND 10 GPS MONU, 1995" LOCATED ON THE SOUTH BOUND HIGHWAY 288 APPROXIMATELY 2,400 FEET SOUTH OF F.M. 518 AND 21 FEET WEST FROM THE WEST EDGE OF ASPHALT. ELEV.=59.29' (NGVD 1929, 1987 ADJUSTMENT).

**TBM A:** BOX CUT ON H2-INLET LOCATED ON THE NORTH SIDE OF COUNTY ROAD 101 SOUTH OF THE SOUTHWEST CORNER OF THE PROPERTY, AS SHOWN. ELEVATION = 64.44'

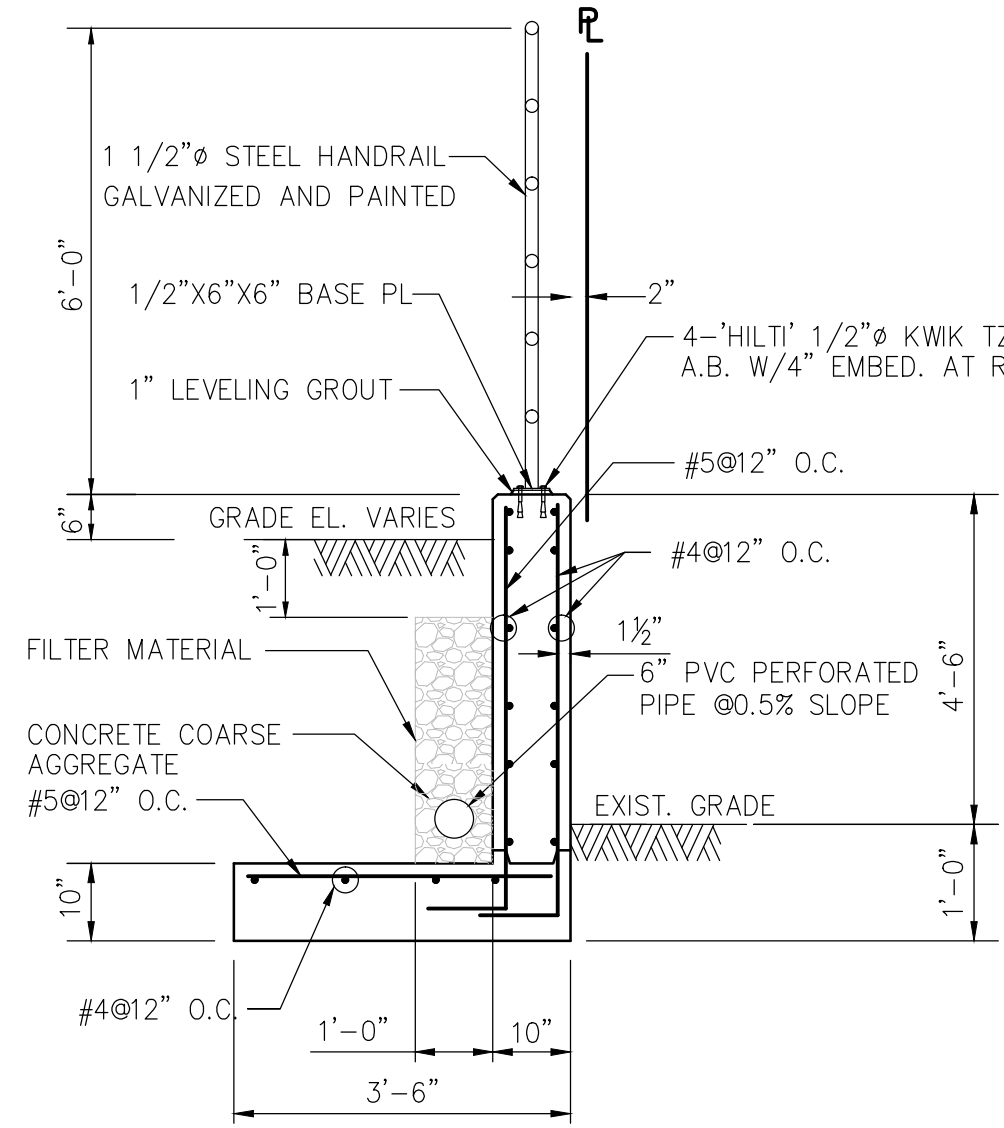
**TBM B:** BOX CUT ON RCP LOCATED ON THE EAST SIDE OF COUNTY ROAD 94 NEAR THE EAST PORTION OF THE PROPERTY, AS SHOWN. ELEVATION = 61.48'

**FLOOD NOTE**  
 ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP FOR BRAZORIA COUNTY, TEXAS AND INCORPORATED AREAS, COMMUNITY PANEL NO. 48039-C-0020 H EFFECTIVELY DATED JUNE 5, 1989, THIS PROPERTY LIES IN ZONE "AE", SPECIAL FLOOD HAZARD AREAS INUNDAED BY THE 1% ANNUAL CHANCE FLOOD EVENT WITH BASE FLOOD ELEVATIONS DETERMINED.

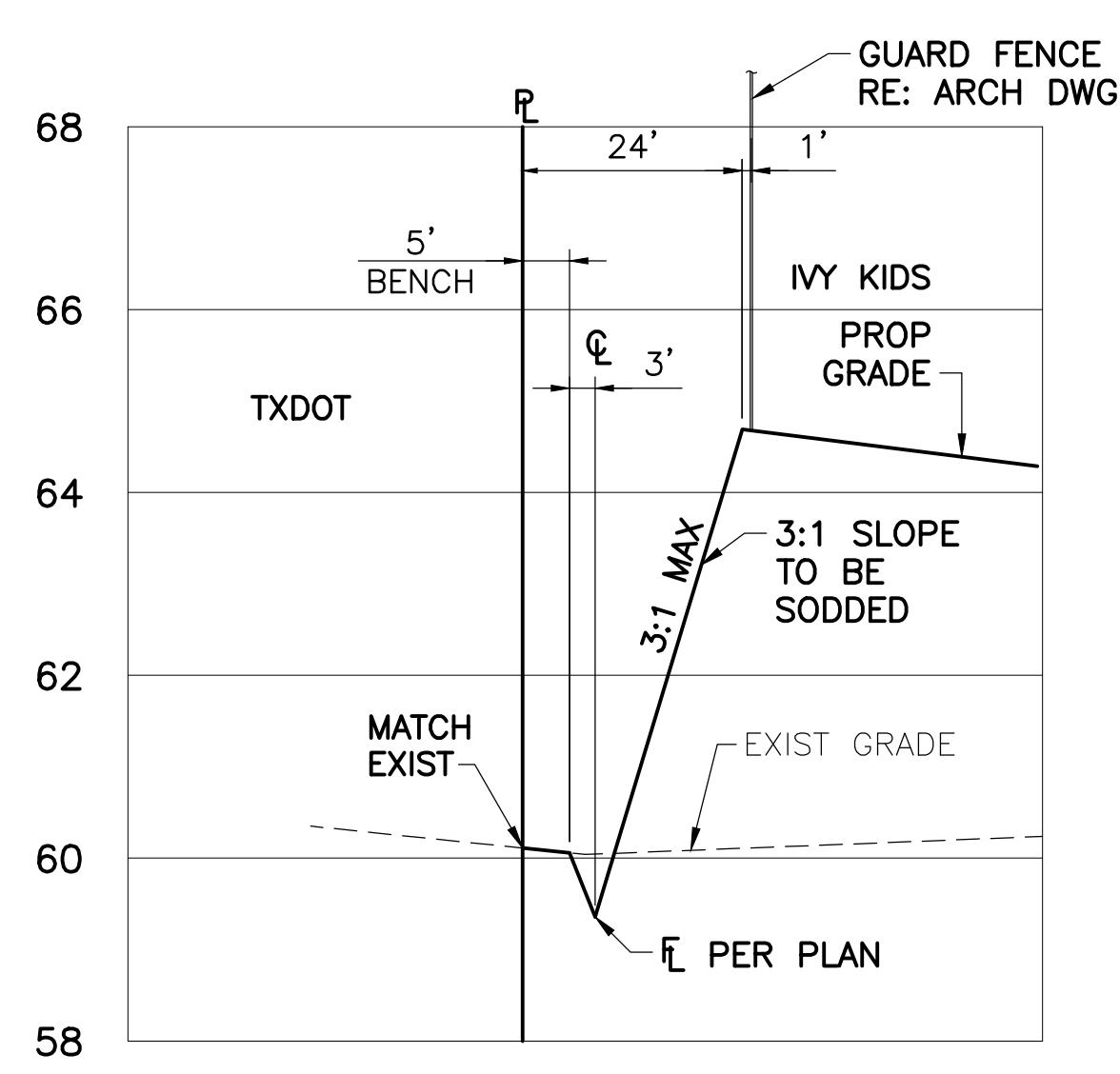
- LEGEND**
- EXISTING STORM SEWER BY OTHERS
  - EXISTING INLET BY OTHERS
  - EXISTING SPOT GRADE
  - PROPOSED STORM SEWER
  - PROPOSED STORM MANHOLE RE: SHT C9
  - PROPOSED STORM INLET RE: SHT C8
  - PROPOSED TOP OF PAVEMENT ELEVATION
  - PROPOSED TOP OF GRATE
  - PROPOSED TOP OF RETAINING WALL ELEVATION
  - PROPOSED TOP OF CURB
  - PROPOSED C OF DITCH/SWALE ELEVATION
  - PROPOSED TOP OF DITCH/SWALE HIGH BANK ELEVATION

- NOTES:**
- ALL PROPOSED SPOT ELEVATIONS INDICATE TOP OF PROPOSED PAVEMENT ELEVATION UNLESS INDICATION OTHERWISE (I.E. TG=TOP GRATE).
  - ALL ACCESSIBLE ROUTES AT SIDEWALKS AND OTHER PAVED AREAS SHALL HAVE A SLOPE OF NO MORE THAN 5% IN THE DIRECTION OF TRAVEL (EXCEPT RAMPS) AND 2% IN THE TRANSVERSE OR CROSSING DIRECTION.

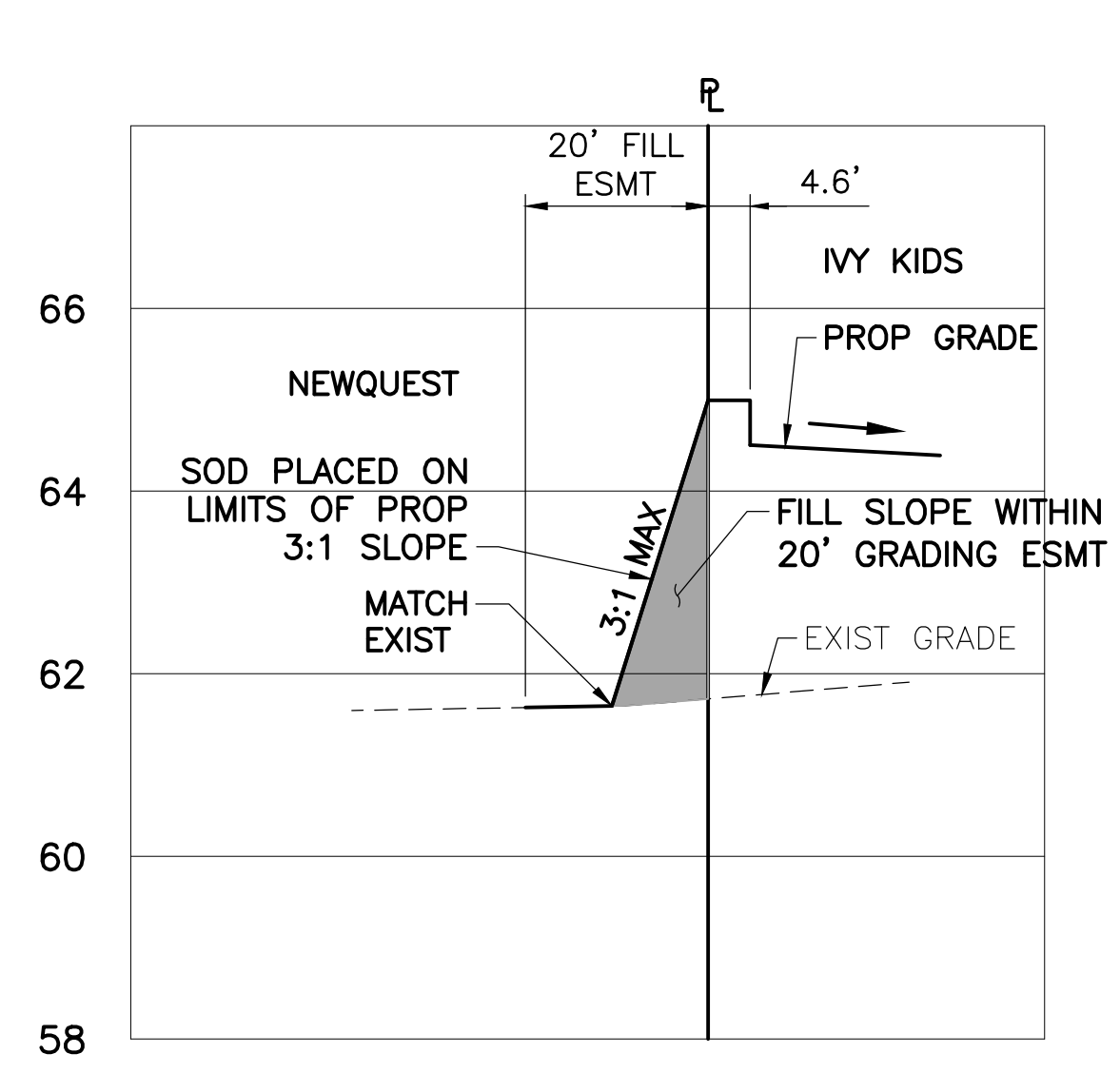
THIS DEVELOPMENT DOES NOT HAVE ADVERSE IMPACT TO STORM DRAINAGE OF ADJACENT PROPERTIES



**(A)** TYPICAL RETAINING WALL SECTION ALONG NORTH PROPERTY LINE  
 N.T.S.



**(B)** TYPICAL SLOPE SECTION ALONG WEST PROPERTY LINE  
 SCALE: HORIZ: 1" = 20'  
 VERT: 1" = 2'



**(C)** TYPICAL SLOPE SECTION ALONG SOUTH PROPERTY LINE  
 SCALE: HORIZ: 1" = 20'  
 VERT: 1" = 2'

MODEL	SIZE	L1	W1	H1	WEIGHT
FDC-4	4"	6'-0"	3'-0"	4'-0"	5,000
FDC-6	6"	6'-0"	3'-0"	4'-0"	5,100
FDC-8	8"	6'-0"	3'-0"	4'-0"	5,200

**Specifications**  
 CONCRETE: Class I/II concrete with design strength of 4000 PSI at 28 days. Unit is of monolithic construction at floor and first slope of wall with sectional riser to required depth.  
 REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A630 on required centers or equal.  
 ACCESS COVER: 1/4" rigid-resistant aluminum floor plate welded to 3" angle frame with (2) 3/4"x3/8" l-beam supports. Hatch to be furnished with 316 stainless steel bolts and hinges.

**Engineering Data**  
 The valve assembly shall be factory assembled in vault and hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations:

**PROJECT:** MISSION ENGINEERING INC. 10370 RICHMOND AVE, #560 HOUSTON, TEXAS 77042 [T] 713-981-0018 [E] dzhuang@missioneng.com TPEF Registration No. F-11771

**ENGINEER:** YIFENG ZHUANG 87950

**DATE:** 04/23/2019

**DRAWING TITLE:** GRADING PLAN

**DRAWN BY:** KN **CHECKED BY:** EL

**DATE:** 04/23/2019 **JOB NO.:** 1806251

**DRAWING NO.:** C2

**REVISIONS AND ISSUANCE**

NO.	DATE	DESCRIPTION

**IVY KIDS EARLY LEARNING CENTER**  
 4434 CR 94  
 MANVEL, TEXAS 77578

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 HOUSTON, TEXAS 77042  
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**STATE OF TEXAS**  
 YIFENG ZHUANG  
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