

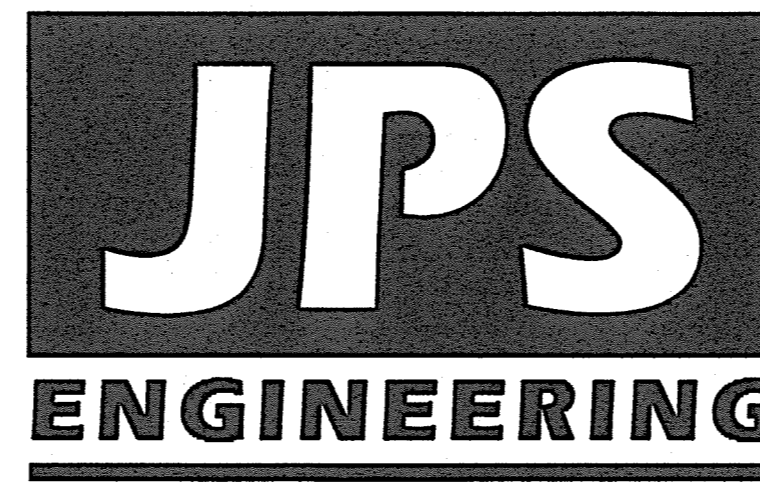
# ENGINEERING RECORD DRAWINGS

# MONUMENT ACADEMY Civil Construction Drawings El Paso County, Colorado

PREPARED FOR:

**Monument Academy**  
1150 Village Ridge Point  
Monument, CO 80132

PREPARED BY:



PREPARED BY:

**19 East Willamette Avenue**  
**Colorado Springs, Colorado 80903**  
**May, 2020**

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	REFER TO SIGNING & STRIPING PLANS BY LSC
	LIGHTING AND LANDSCAPING PLANS PROVIDED BY OTHERS.
	CONCRETE PATTERN AND JOINT PLANS FOR THE ROUNDABOUTS AND MEDIANS SHALL BE PROVIDED PRIOR TO FORMING.

## TRAFFIC CONTROL NOTE

THE CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL DEVICES AND MONITORING NECESSARY TO SAFELY COMPLETE THE WORK SHOWN IN THESE CONSTRUCTION DOCUMENTS IN CONFORMANCE WITH M.U.T.C.D. GUIDELINES. THE CONTRACTOR SHALL COMPLETE ALL NECESSARY WORK FOR PLAN REVIEW, PERMITS, AND PROCESSING. TRAFFIC CONTROL WILL NOT BE PAID SEPARATELY BUT IS INCLUDED IN THE COST OF THE PROJECT.

## AGENCIES/CONTACTS

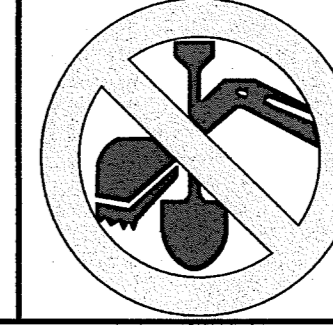
<b>OWNER:</b>	MONUMENT ACADEMY FOUNDATION 1150 VILLAGE RIDGE PT MONUMENT, CO 80132 MR. MARK McWILLIAMS (719) 481-1950	<b>CIVIL ENGINEER:</b>	JPS ENGINEERING, INC. 19 E. WILLAMETTE AVENUE COLORADO SPRINGS, CO 80903 MR. JOHN P. SCHWAB, P.E. (719) 477-9429	<b>WATER/WASTEWATER:</b>	WALDEN CORPORATION PO BOX 1870 MONUMENT, CO 80132 MR. MATT DUNSTON (719) 339-2410
<b>ARCHITECT:</b>	CRP ARCHITECTS 100 E. ST. VRAIN ST., STE. 300 COLORADO SPRINGS, CO 80903 MR. BRIAN RISLEY (719) 633-5901	<b>LOCAL ROADS &amp; DRAINAGE:</b>	EL PASO COUNTY PCD 2880 INTERNATIONAL CIRCLE COLORADO SPRINGS, CO 80910 MR. JEFF RICE, P.E. (719) 520-6300/7877	<b>GAS DEPARTMENT:</b>	BLACK HILLS ENERGY MR. SEBASTIAN SCHWENDER (719) 399-3176
<b>OWNER'S REP:</b>	ANOR ADVISORY 1703 SAND LILY DRIVE GOLDEN, CO 80401 MR. KURT CONNOLLY (303) 526-7928	<b>STATE HIGHWAY</b>	COLORADO DEPARTMENT OF TRANSPORTATION REGION 2 5615 WILLS BLVD. PUEBLO, CO 81008 MR. ARTHUR GONZALES (719) 546-5732	<b>ELECTRIC DEPARTMENT:</b>	MOUNTAIN VIEW ELECTRIC ASSOCIATION 11140 E. WOODMEN ROAD COLORADO SPRINGS, CO 80908 MR. DAVE WALDNER (719) 495-2283
<b>GENERAL CONTRACTOR:</b>	JHL CONSTRUCTORS, INC. 7076 SOUTH ALTON WAY, BLDG. H CENTENNIAL, CO 80112 MS. AMEEE CLODE (303) 741-6116	<b>FIRE DISTRICT</b>	TRI-LAKES MONUMENT FIRE PROTECTION DISTRICT 16055 OLD FOREST POINT, STE. 1003 MONUMENT, CO 8032 MR. JAMEY BUMGARNER, FIRE MARSHAL (719) 484-0911	<b>TELEPHONE COMPANY:</b>	CENTURY LINK COMMUNICATIONS (LOCATORS) (800) 922-1987  A.T. & T. (LOCATORS) (719) 635-3674

### ENGINEERING RECORD DRAWINGS

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL, THE EXACT LOCATION, TYPE OF COMPONENT, NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS. REFER TO ORIGINAL DRAWINGS FOR SIGNATURES AND SEALS.

John P. Schwab Date: 2/8/23  
JOHN P. SCHWAB, PE# 29891  
FOR AND ON BEHALF OF JPS ENGINEERING, INC.

CALL UTILITY NOTIFICATION  
CENTER OF COLORADO  
**1-800-922-1987**  
CALL 2-BUSINESS DAYS IN ADVANCE  
BEFORE YOU DIG, GRADE, OR EXCAVATE  
FOR THE MARKING OF UNDERGROUND  
MEMBER UTILITIES.

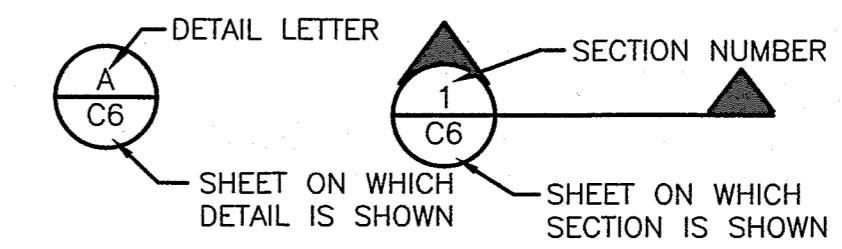


## COUNTY SIGNING AND STRIPING NOTES:

- 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.
- 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 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 SUBBASE DESIGN.
- ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
- ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PERFORMED 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.
- ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL 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.
- THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
- THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

## LEGEND:

---	NEW/EXISTING SECTION LINE	---	NEW/EXISTING SECTION LINE
---	EASEMENT LINE	---	NEW/EXISTING EASEMENT LINE
---	CONTOUR	---	NEW/EXISTING CONTOUR
---	PROPERTY LINE	---	NEW/EXISTING PROPERTY LINE
---	FENCE	---	NEW/EXISTING FENCE
---	OVERHEAD ELECTRIC LINE W/ POWER POLE	---	NEW/EXISTING OVERHEAD ELECTRIC LINE W/ POWER POLE
---	UNDERGROUND ELECTRIC LINE	---	NEW/EXISTING UNDERGROUND ELECTRIC LINE
---	UNDERGROUND ELECTRIC	---	NEW/EXISTING UNDERGROUND ELECTRIC
---	TELEPHONE	---	NEW/EXISTING TELEPHONE
---	GAS	---	NEW/EXISTING GAS
---	WATER	---	NEW/EXISTING WATER
X 55.5	PROPOSED SPOT ELEVATION/FLOWLINE		
TW=53.0	TOP OF WALL ELEVATION		
BW=50.0	BOTTOM OF WALL ELEVATION		
	(FINISHED GRADE AT FACE OF WALL)		



**ENGINEER:**  
**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 LIABILITY CAUSED BY MY NEGLECT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

*John P. Schwab* 2/8/23  
PROFESSIONAL ENGINEER  
DATE: 2/8/23

**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.

*Mark McWilliams* 15 May 2020  
DATE: 15 May 2020

MONUMENT ACADEMY  
1150 VILLAGE RIDGE POINT  
MONUMENT, CO 80132

**EL PASO COUNTY:**  
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.

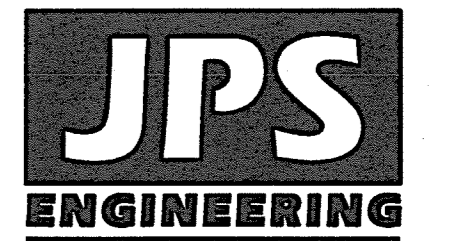
IN ACCORDANCE WITH EGM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

JENNIFER IRVINE, P.E.,  
COUNTY ENGINEER / ECM ADMINISTRATOR

Approved  
By: Elizabeth Nijkamp  
Date: 05/27/2020  
El Paso County Planning & Community Development

# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION



19 E. Willamette Ave.  
Colorado Springs, CO  
80903

PH: 719-477-9429  
FAX: 719-471-0766  
www.jpseng.com

OWNERSHIP OF INSTRUMENTS OF SERVICE:

ALL REPORTS, PLANS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY DESIGN PROFESSIONALS AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF THE DESIGN PROFESSIONAL. THE DESIGN PROFESSIONAL SHALL RETAIN ALL COMMON LAW STATUTORY AND OTHER RESERVED RIGHTS INCLUDING THE COPYRIGHT THERE TO.

CRP ARCHITECTS AIA  
100 E. St. Vrain, Suite 300  
Colorado Springs, Colorado 80903

## TITLE SHEET

NORTH  
DATE: 12/21/18  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 5/15/20

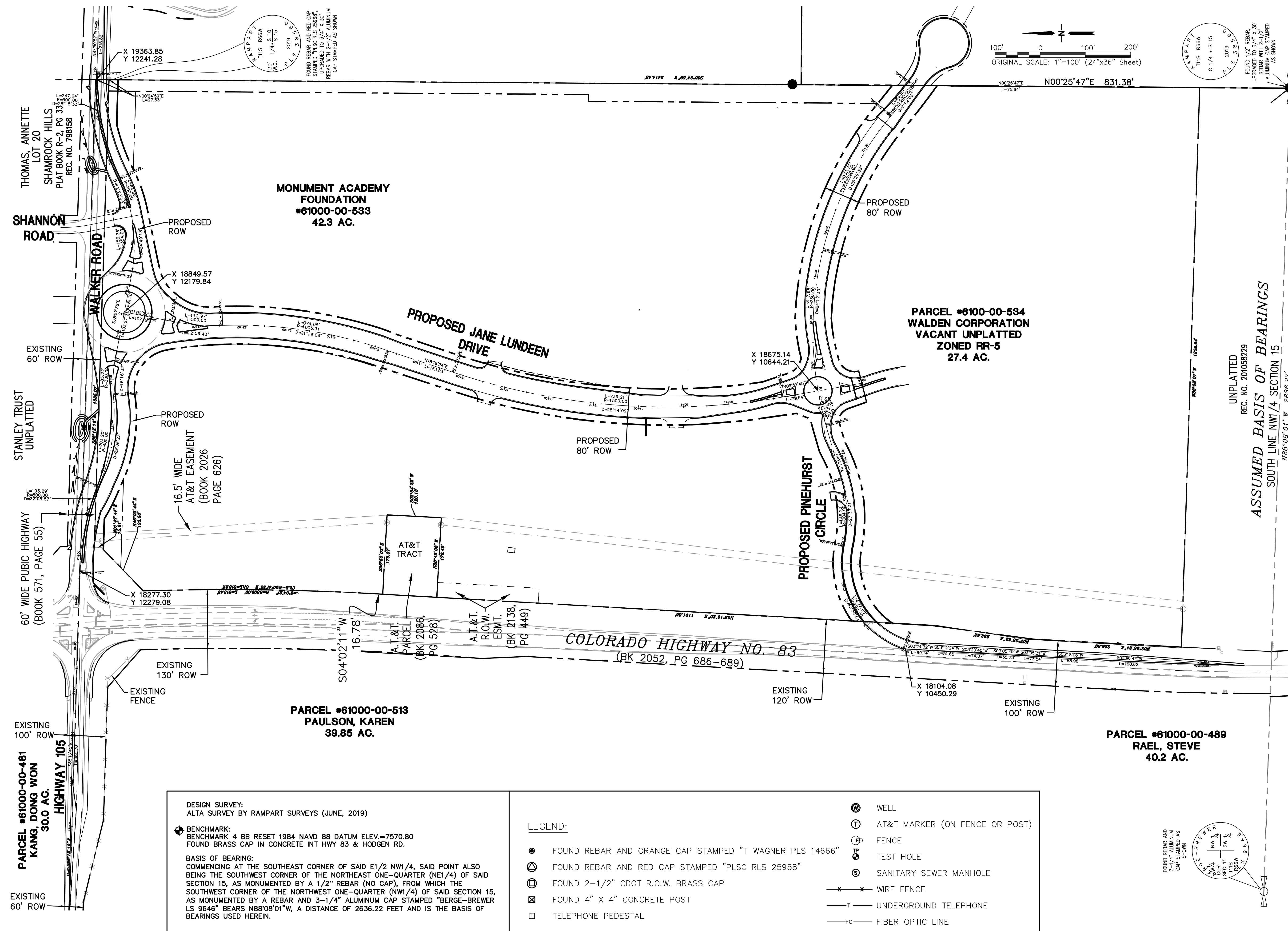
PCD PROJECT NO. CDR-20-001

EPC 5/27/2020

G1

# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION



**JPS  
ENGINEERING**

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NO.	REVISION	BY	DATE
1	FOR PERMIT	JPS	4/01/19
2	COUNTY COMMENTS	JPS	4/29/19
3	COUNTY COMMENTS	JPS	6/20/19
4	COUNTY COMMENTS	JPS	8/23/19
5	ROUNDABOUT REVISIONS	JPS	11/29/19
6	COUNTY COMMENTS	JPS	4/08/20
7	COUNTY COMMENTS	JPS	5/15/20

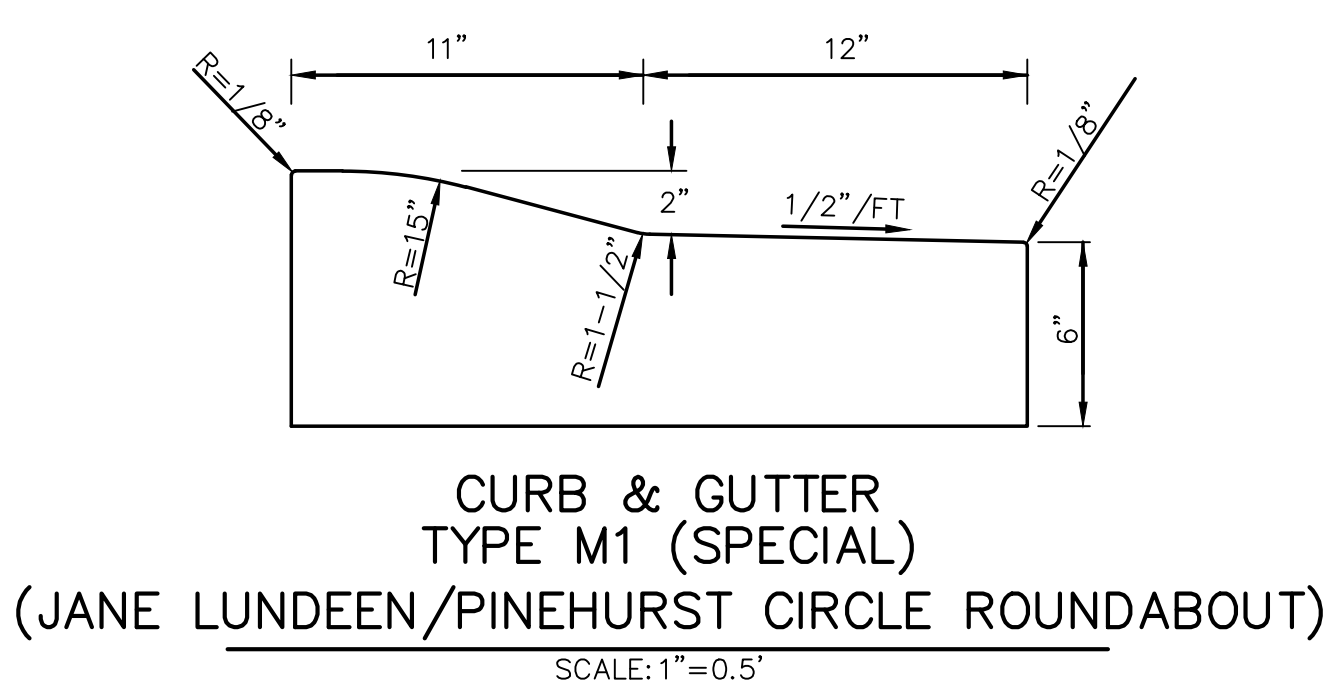
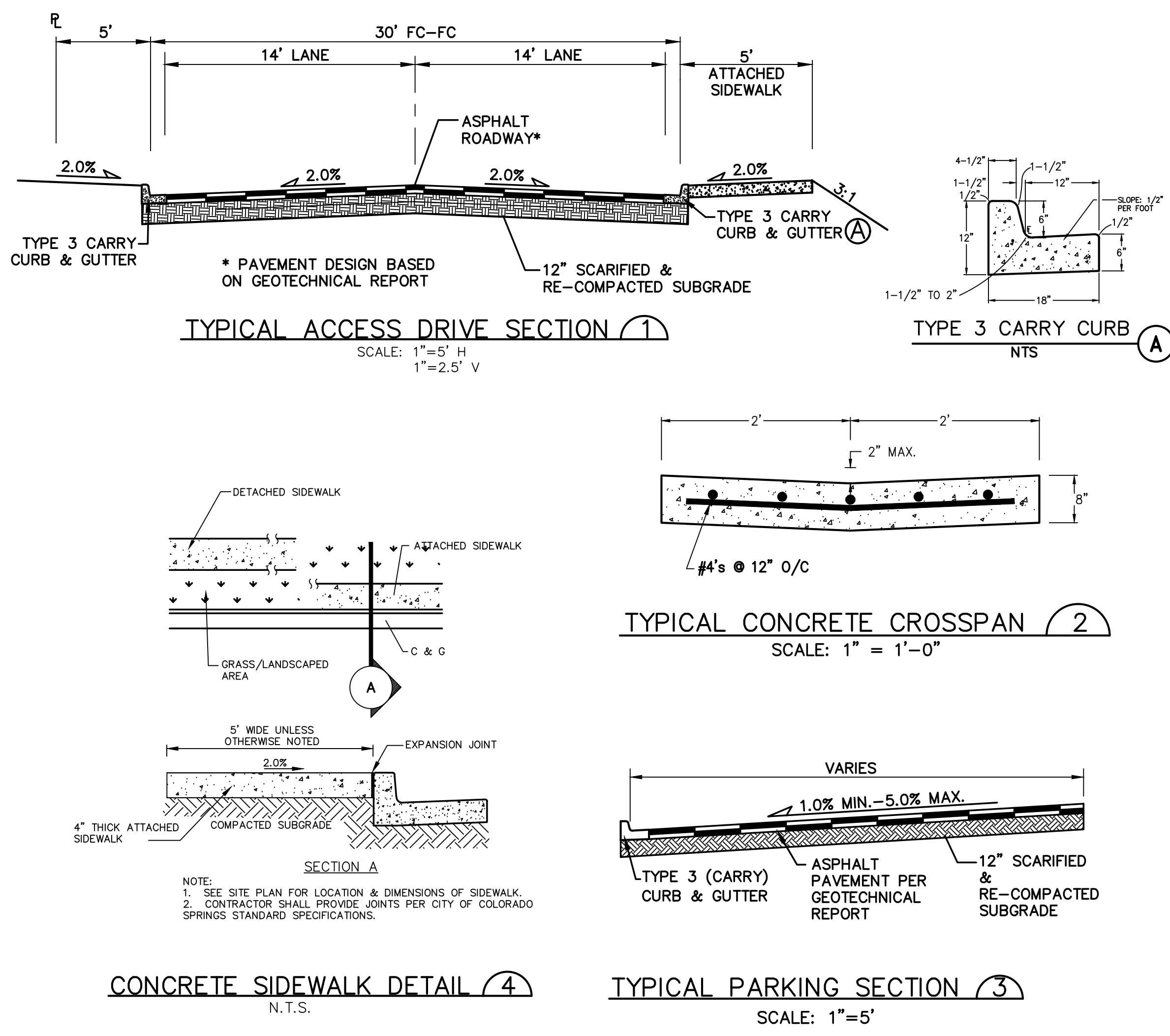
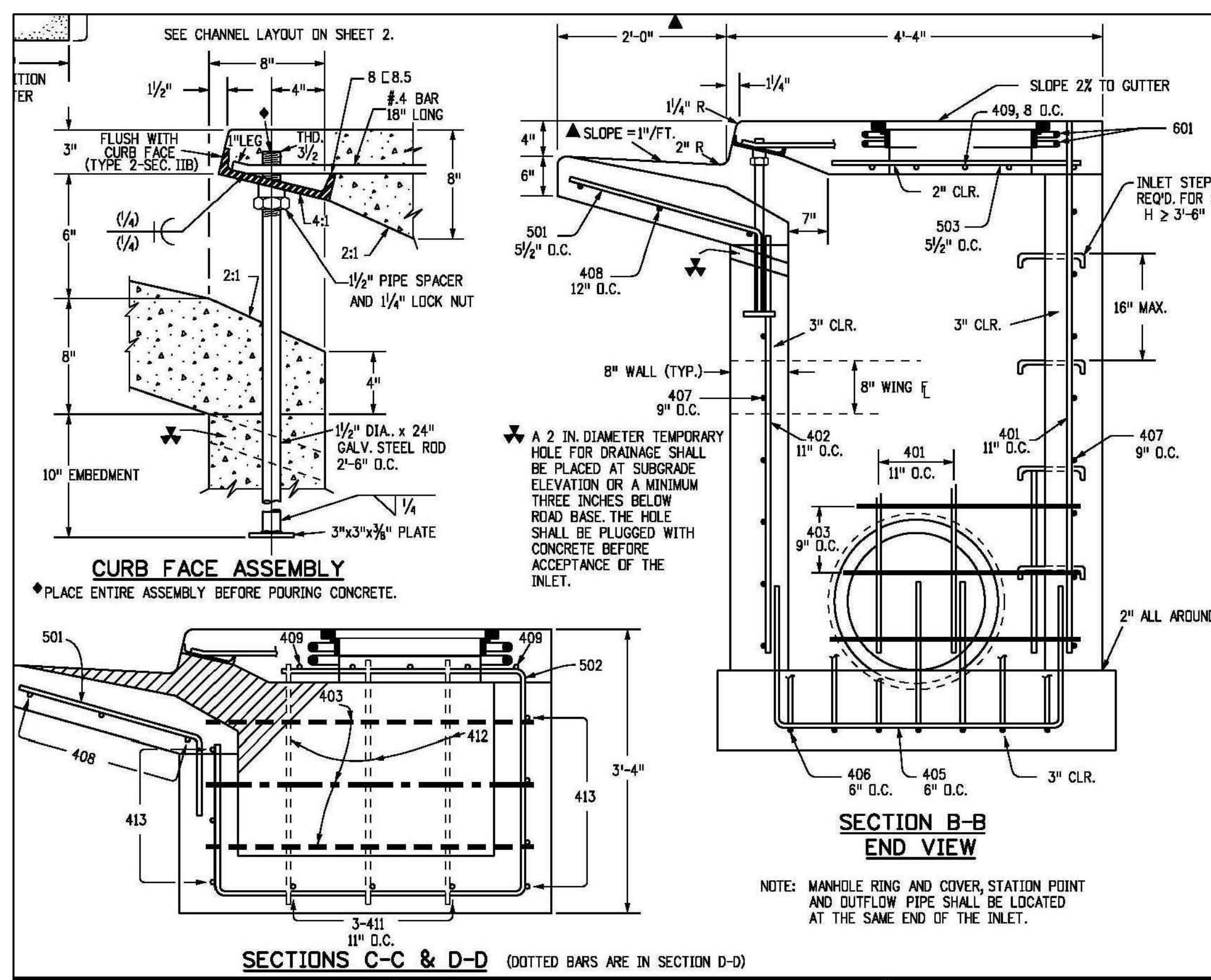
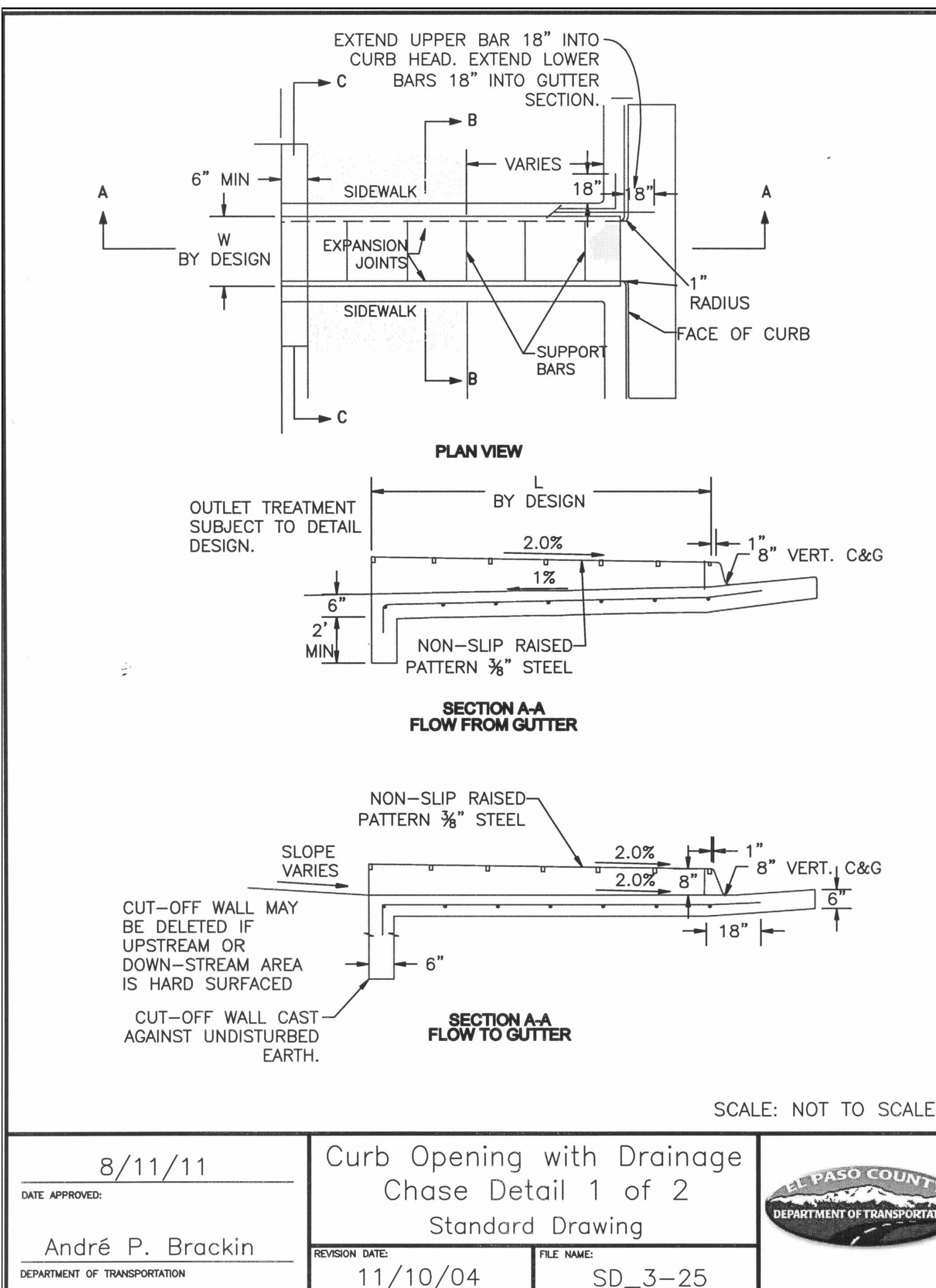
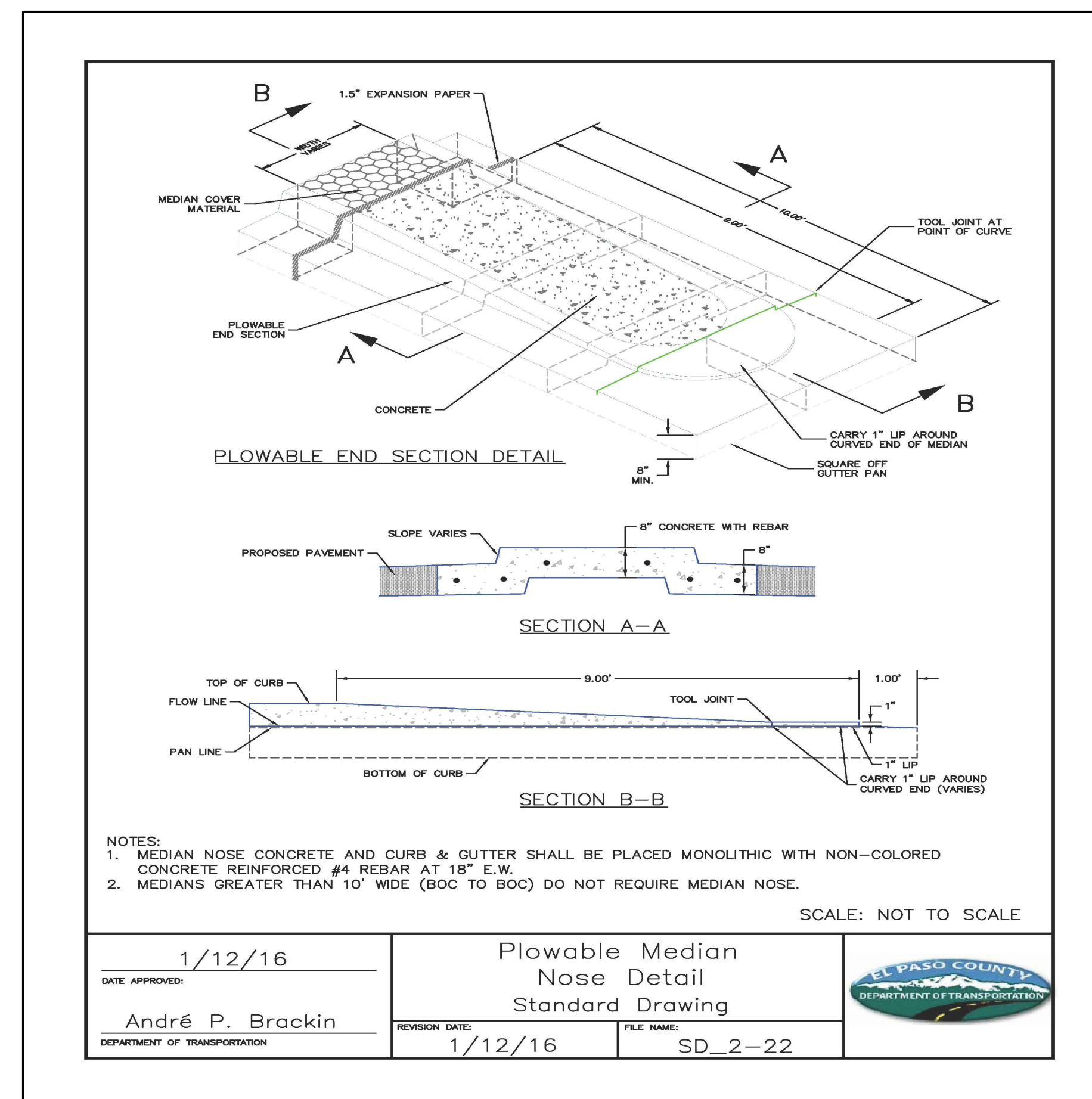
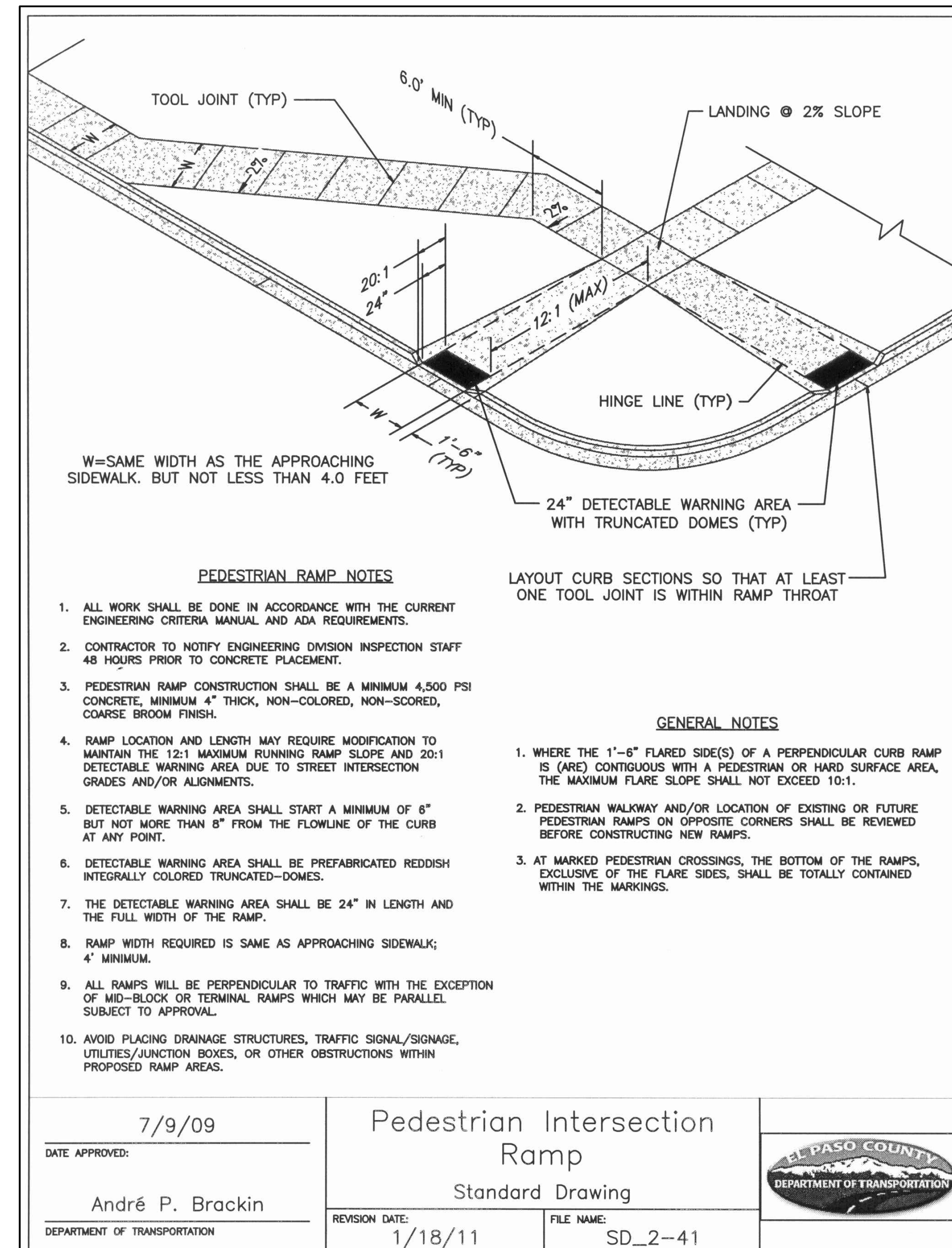
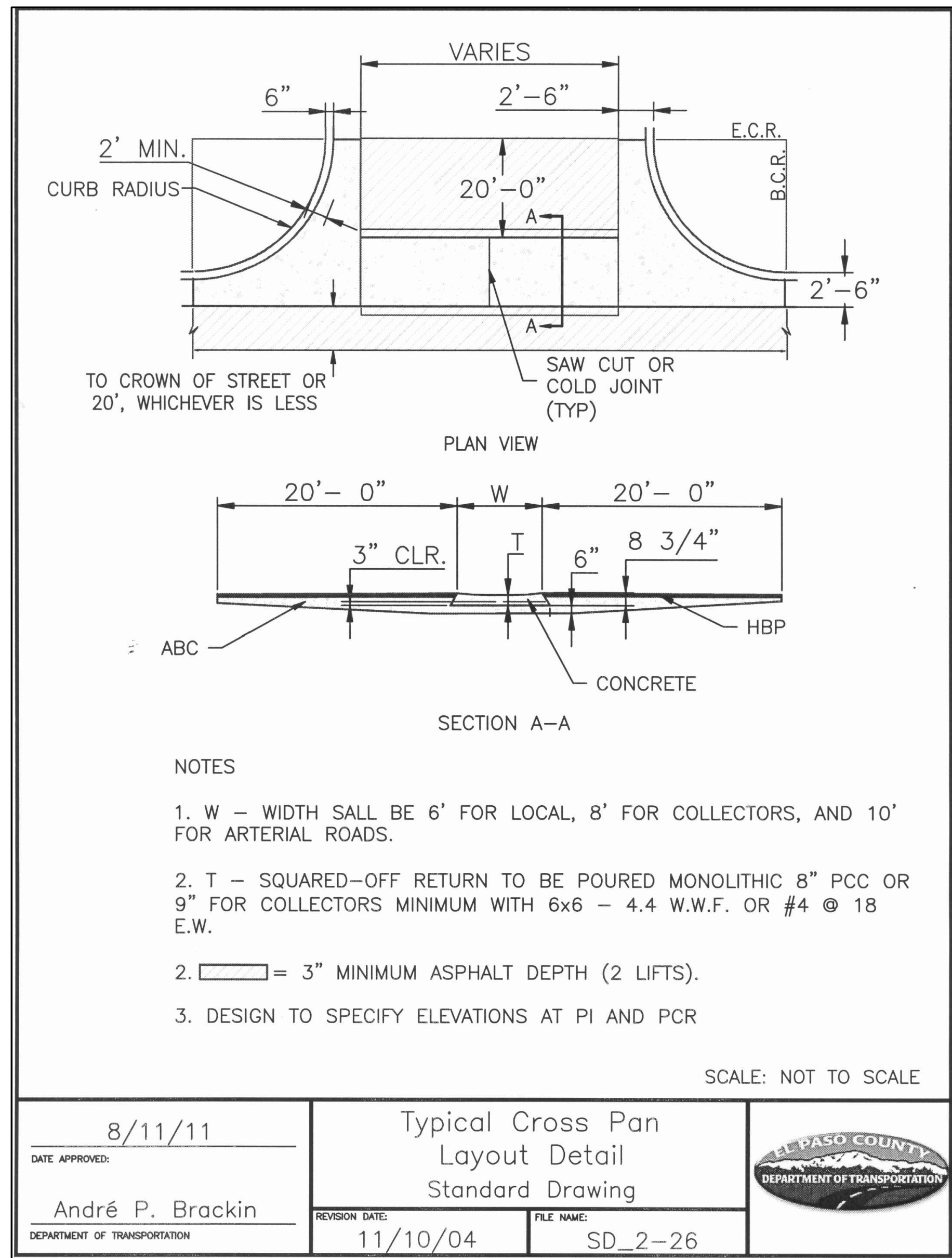
PCD PROJECT NO. CDR-20-001

**CRP ARCHITECTS AIA**  
100 E. St. Vrain, Suite 300  
Colorado Springs, Colorado 80903

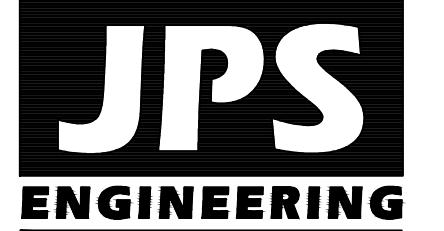
## SURVEY CONTROL PLAN

SCALE : 1"=100'

NORTH	
DATE:	3/04/20
DRAWN BY:	BJJ
CHECKED BY:	JPS
REVISED:	5/15/20



NO.	REVISION	BY	DATE
1	FOR PERMIT	JPS	4/01/19
2	COUNTY COMMENTS	JPS	4/29/19
3	COUNTY COMMENTS	JPS	6/20/19
4	COUNTY COMMENTS	JPS	7/09/19
5	COUNTY COMMENTS	JPS	9/25/19
6	COUNTY COMMENTS	JPS	4/08/20
7	COUNTY COMMENTS	JPS	5/05/20



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 Colorado Springs, CO 80903  
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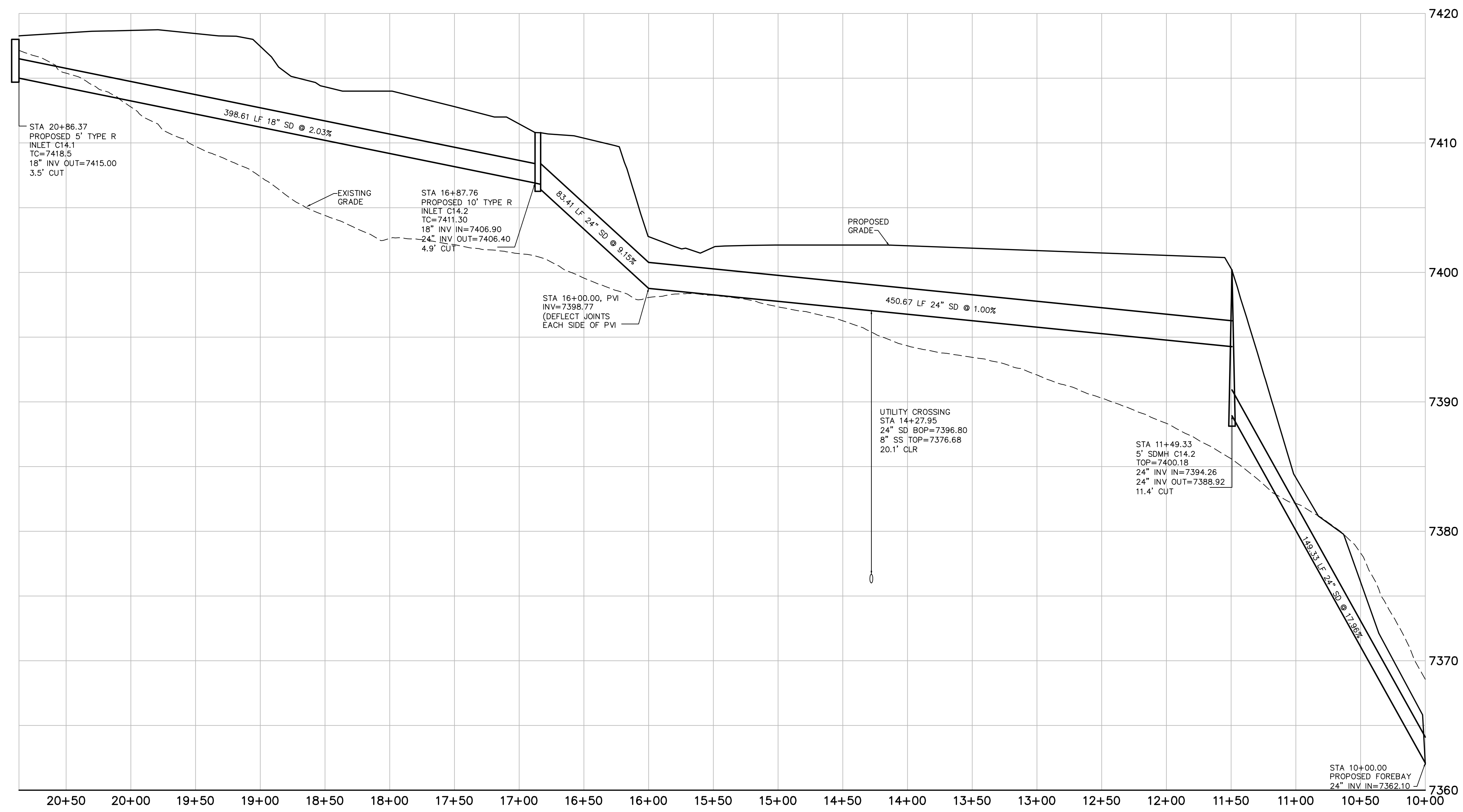
CRP ARCHITECTS AIA  
 100 E. St. Vrain, Suite 300  
 Colorado Springs, Colorado 80903

CIVIL DETAILS - PHASE 1b

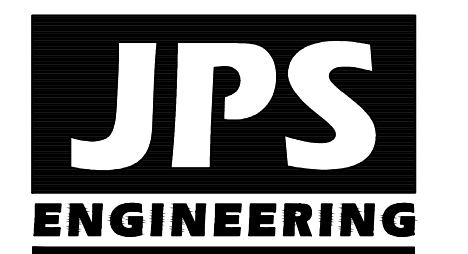
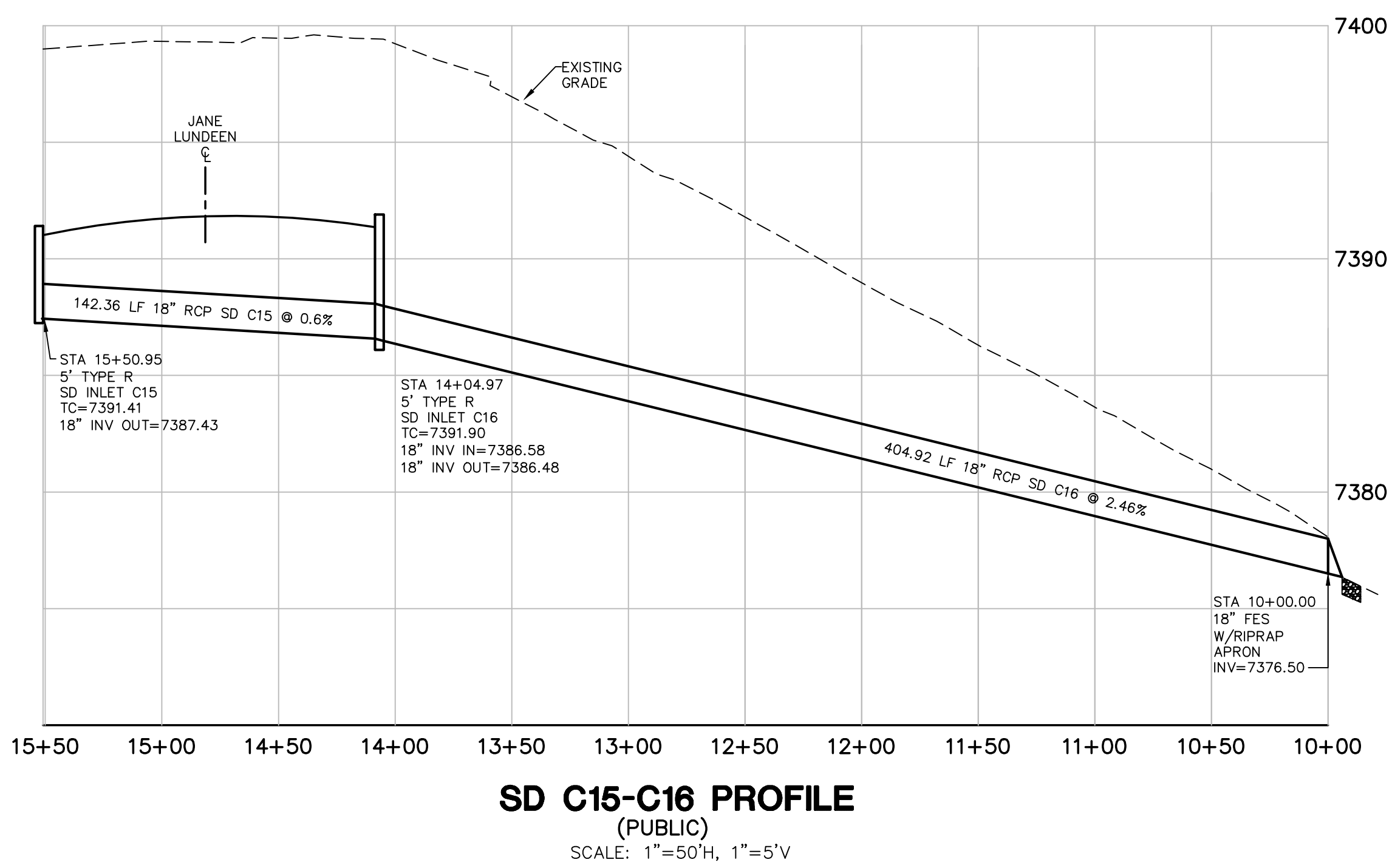
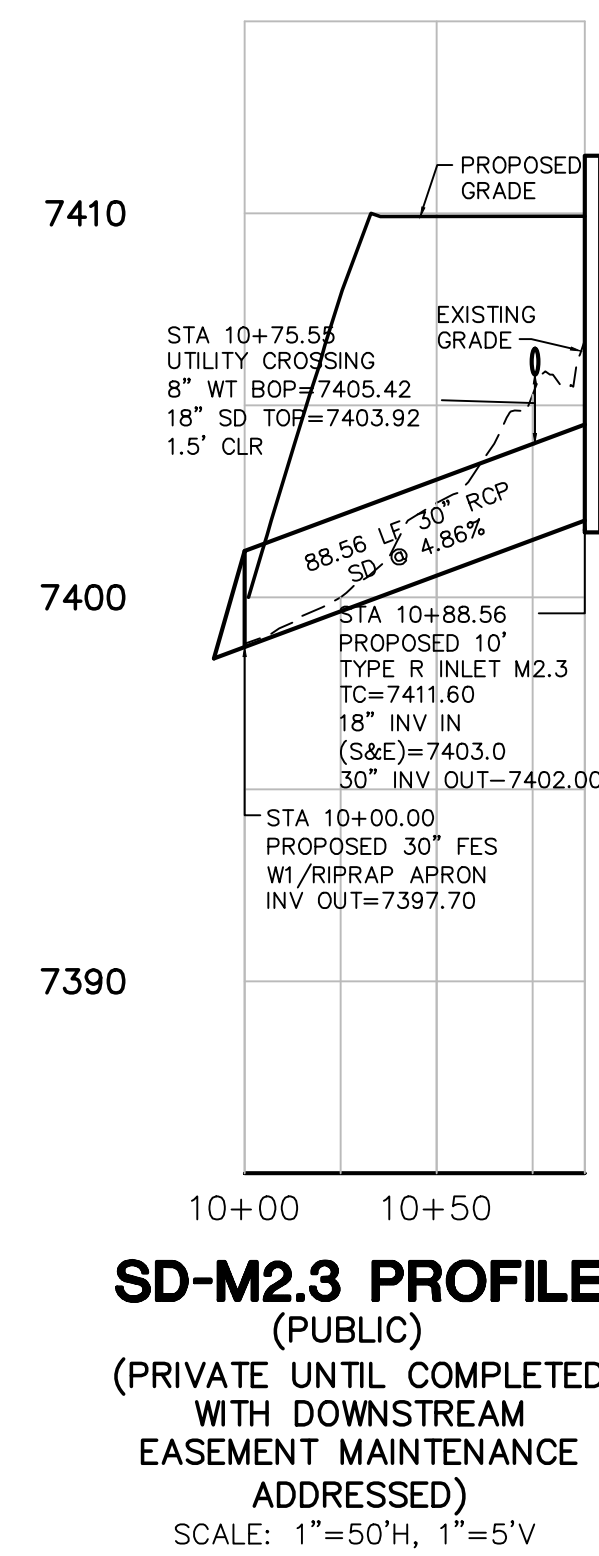
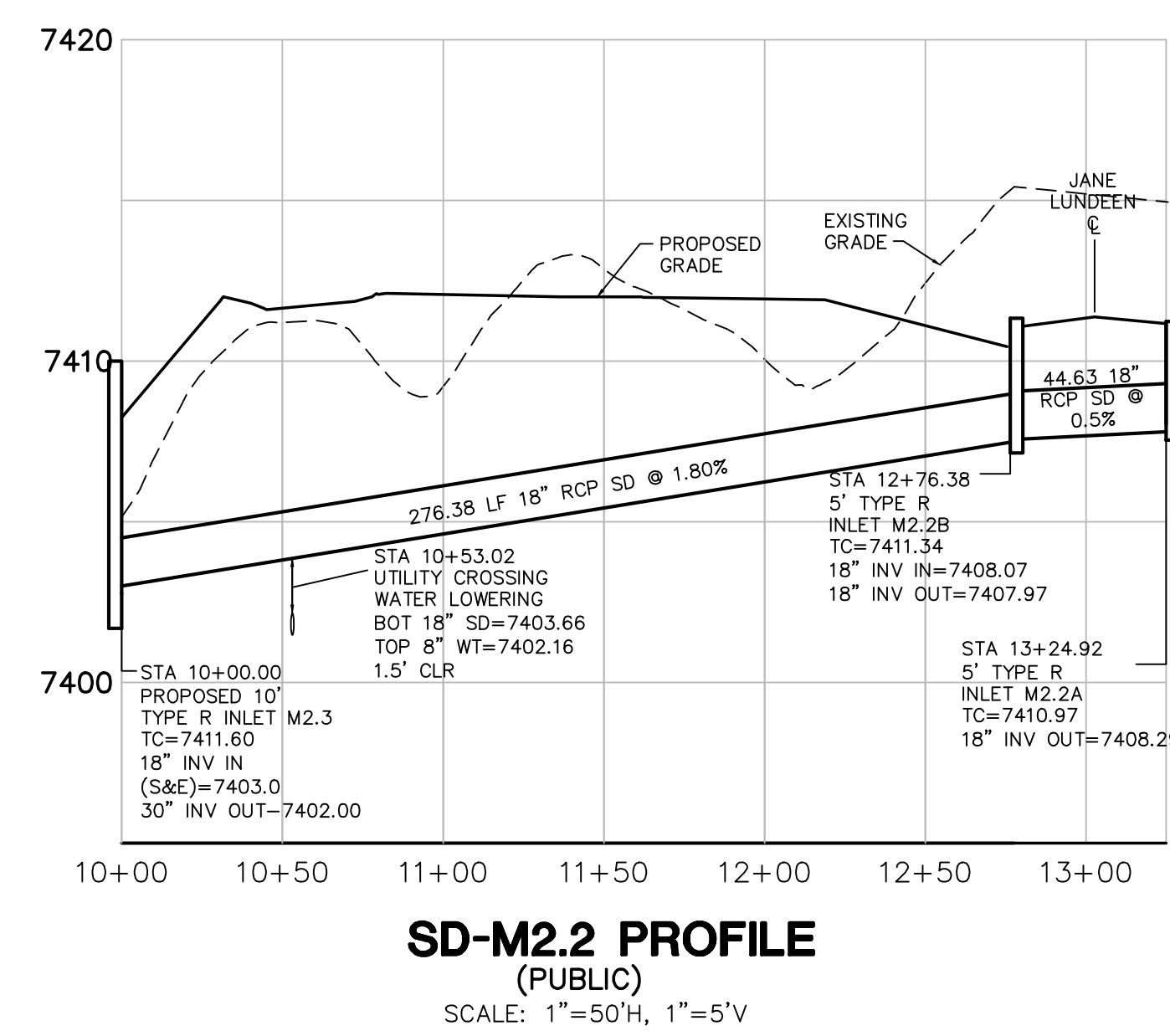
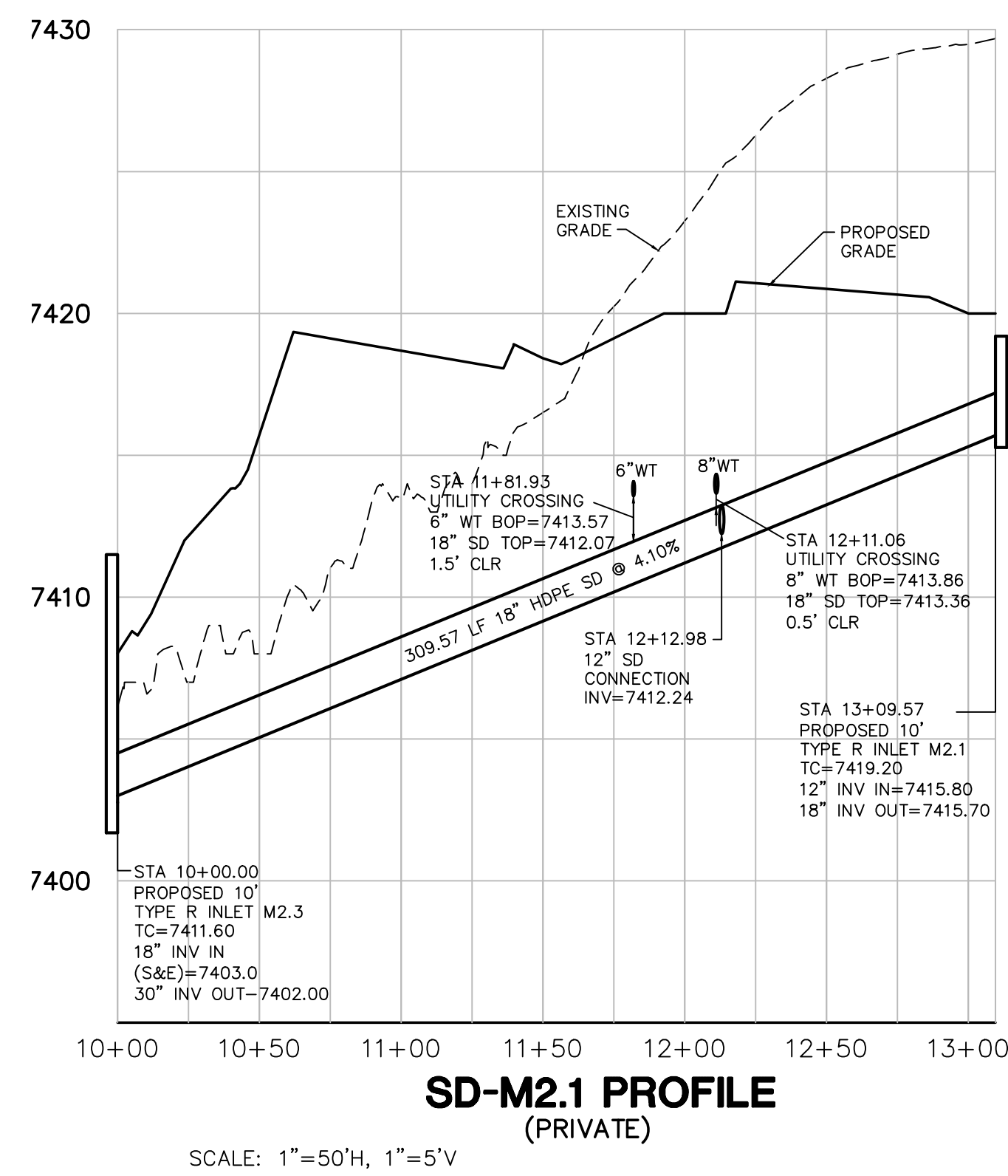
NORTH  
 DATE: 12/21/18  
 DRAWN BY: BJJ  
 CHECKED BY: JPS  
 REVISED: 5/05/20

# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION



**SD-C14 PROFILE (PRIVATE)**  
SCALE: 1"=50'H, 1"=5'V



19 E. Willamette Ave.  
Colorado Springs, CO  
80903

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FAX: 719-471-0766  
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NO.	REVISION	BY	DATE
△	FOR PERMIT	JPS	4/01/19
△	COUNTY COMMENTS	JPS	4/29/19
△	COUNTY COMMENTS	JPS	6/20/19
△	COUNTY COMMENTS	JPS	8/09/19
△	SD-C14.2 REVISION	JPS	9/20/19
△	SD-C14.2 & SD-M2.1 REVISION	JPS	10/22/19
△	COUNTY COMMENTS	JPS	4/08/20
△	COUNTY COMMENTS	JPS	5/15/20

CRP ARCHITECTS AIA  
100 E. St. Vrain, Suite 300  
Colorado Springs, Colorado 80903

**STORM SEWER PROFILES**

SCALE: 1"=50'H, 1"=5'V

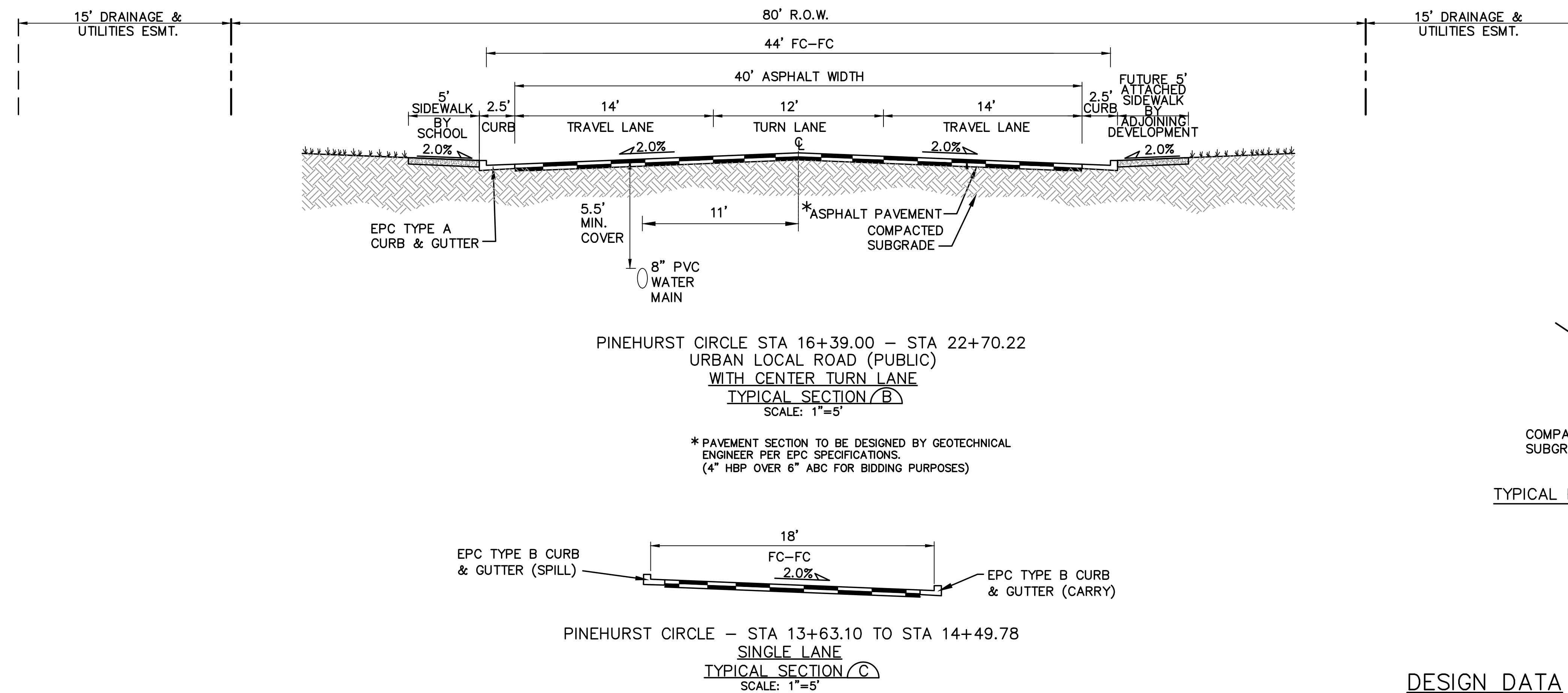
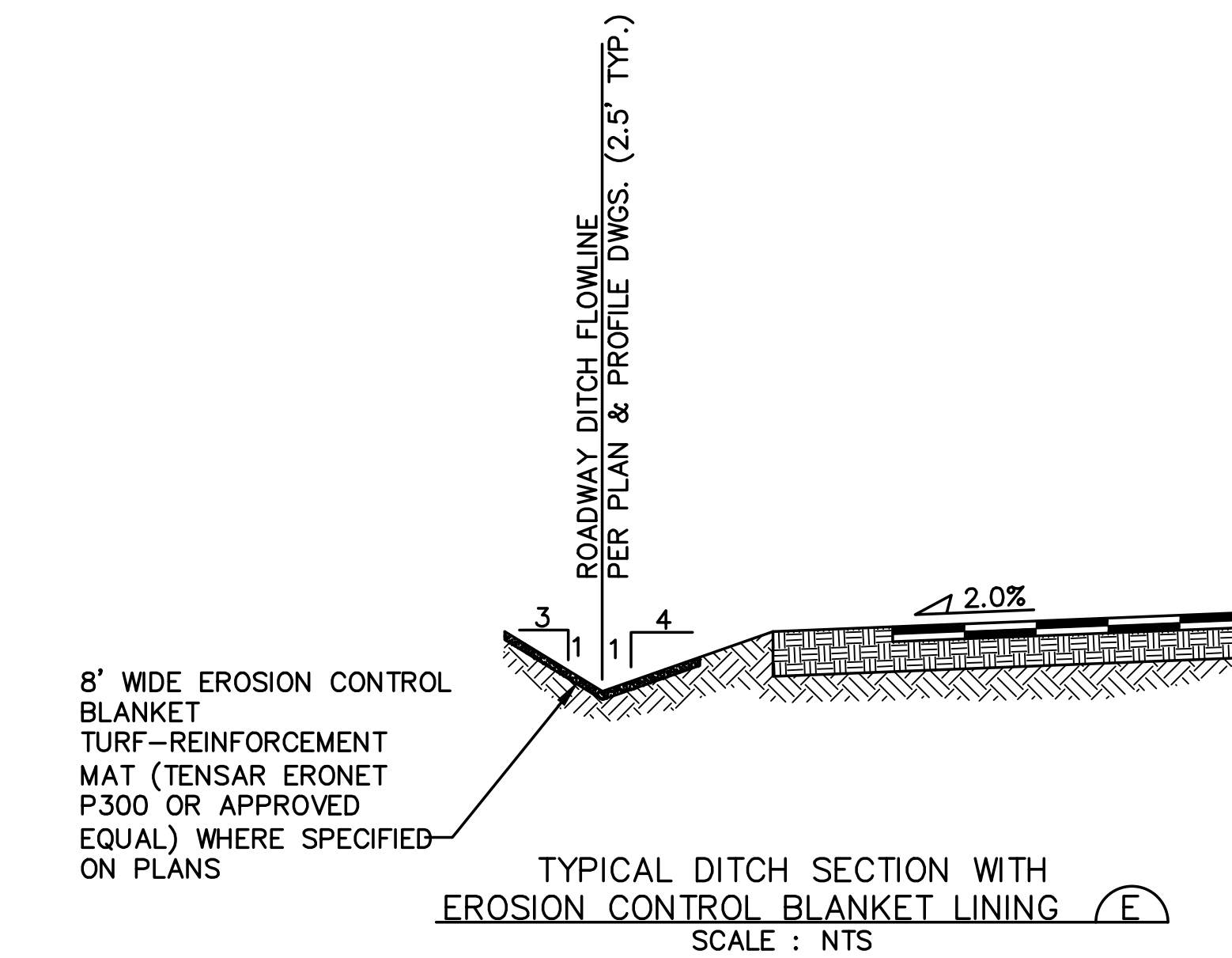
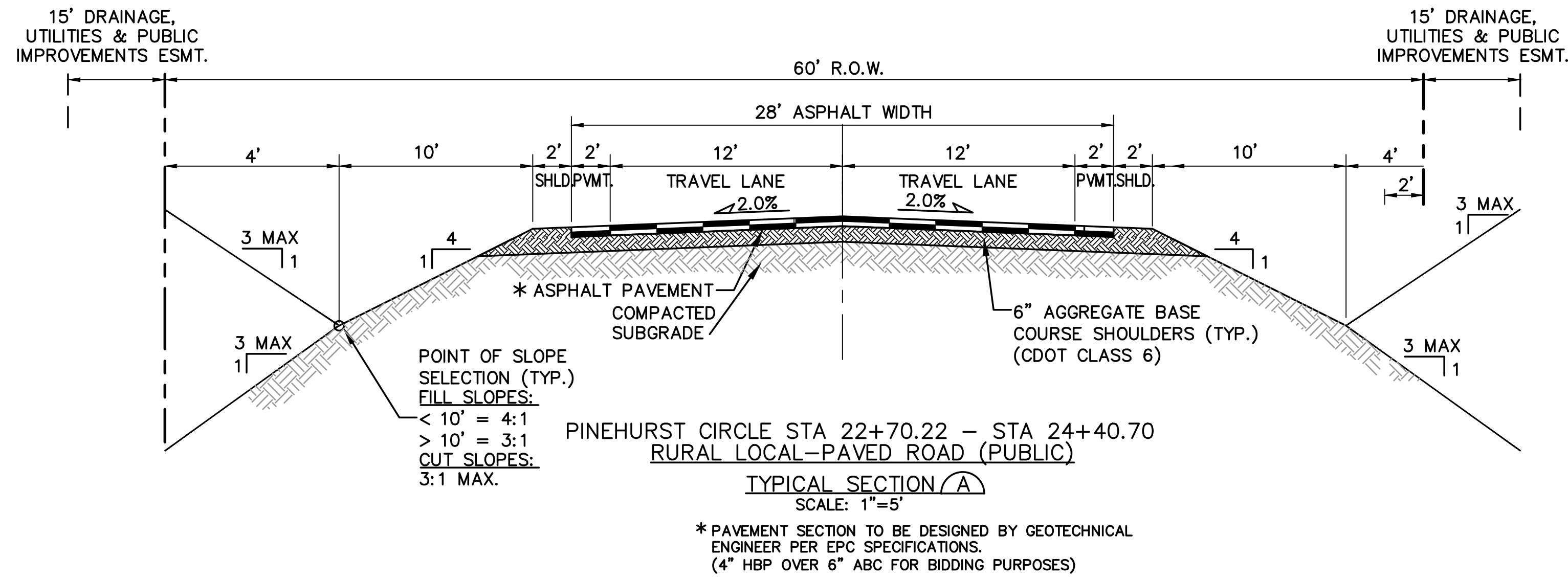
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DATE: 3/29/19  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 5/15/20

PCD PROJECT NO. CDR-20-001

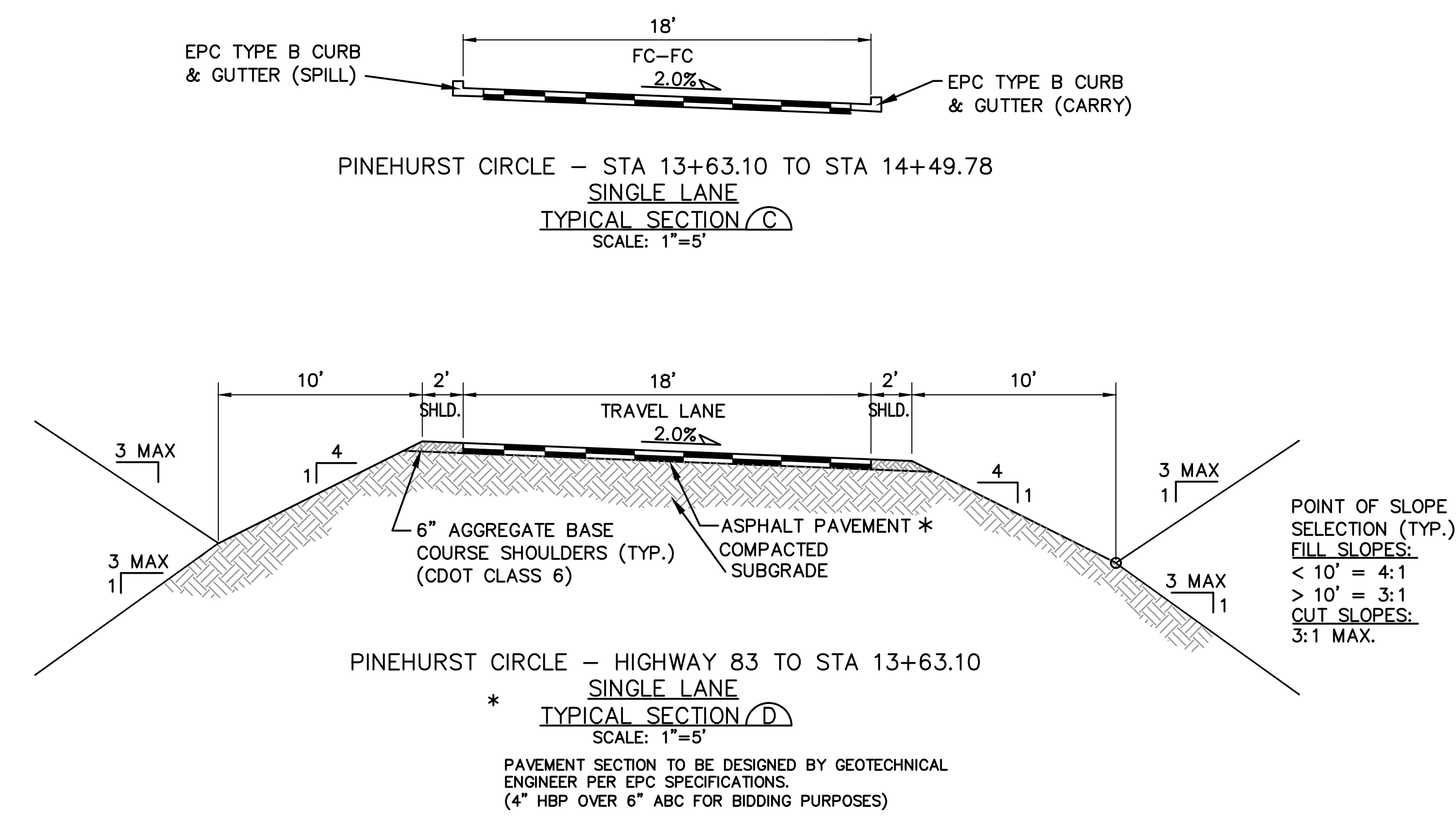
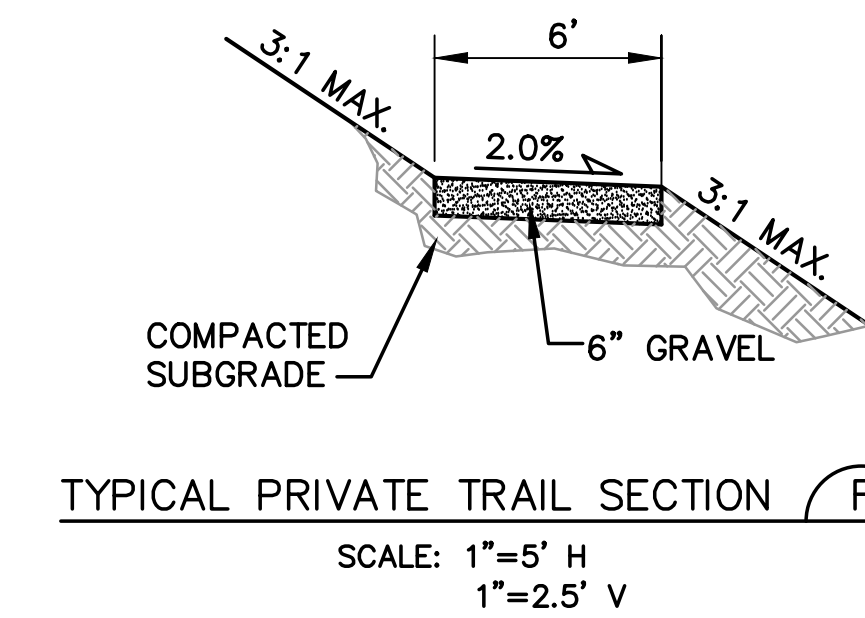
CRP ARCHITECTS AIA  
5/27/2020  
C6.1

# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION



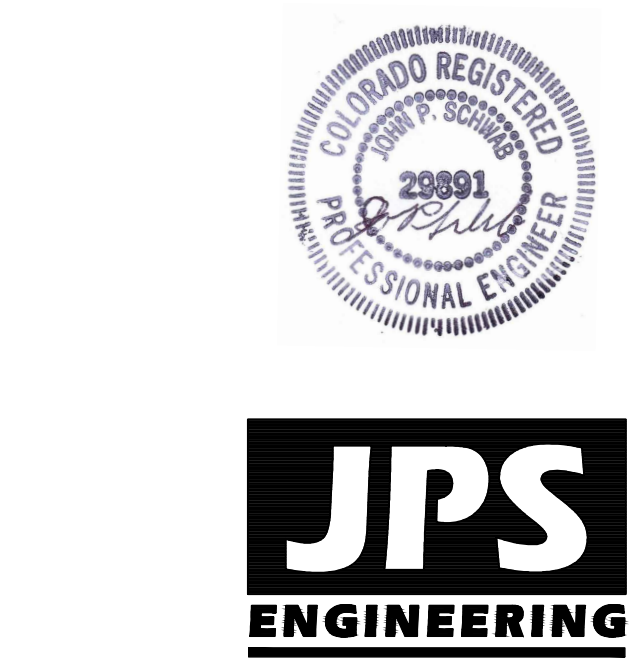
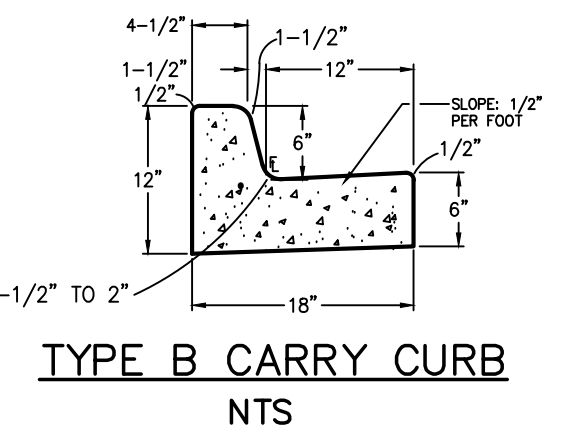
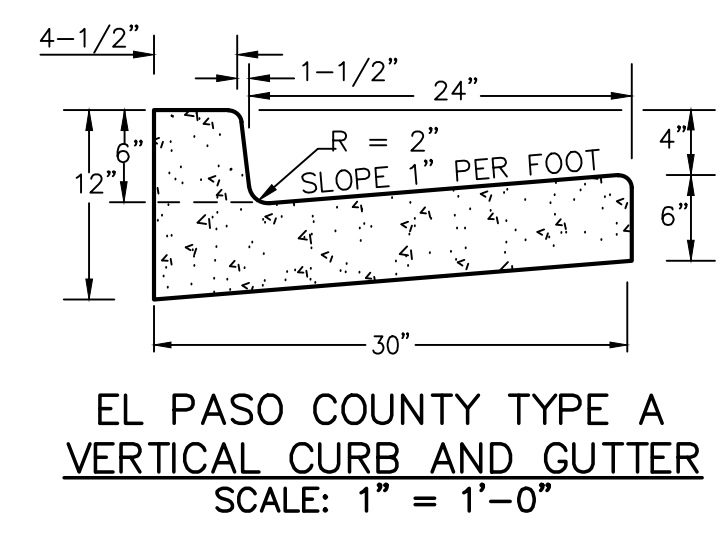
DESIGN DATA	REFERENCE STANDARD
ROAD CLASSIFICATION:	URBAN LOCAL
DESIGN SPEED:	25 MPH ECM TABLE 2-7
POSTED SPEED:	25 MPH ECM TABLE 2-7
ROADWAY WIDTH:	30' EOA-EOA ECM TABLE 2-7
MIN. HORIZONTAL RADIUS:	200' ECM TABLE 2-5
MIN. GRADE:	0.5% ECM TABLE 2-7
MAX. GRADE:	8.0% ECM TABLE 2-7
MIN. K-VALUE (CREST):	12 ECM TABLE 2-13
MIN. K-VALUE (SAG):	26 ECM TABLE 2-15



DESIGN DATA	REFERENCE STANDARD
ROAD CLASSIFICATION:	URBAN NON-RESIDENTIAL COLLECTOR
DESIGN SPEED:	40 MPH ECM TABLE 2-7
POSTED SPEED:	35 MPH ECM TABLE 2-7
ROADWAY WIDTH:	48' EOA-EOA ECM FIGURE 2-14
MIN. HORIZONTAL RADIUS:	565' ECM TABLE 2-7
MIN. GRADE:	0.5% ECM TABLE 2-7
MAX. GRADE:	6.0% ECM TABLE 2-7
MIN. K-VALUE (CREST):	44 ECM TABLE 2-12
MIN. K-VALUE (SAG):	64 ECM TABLE 2-14

DESIGN DATA	REFERENCE STANDARD
*APPROVED DEVIATION:	URBAN LOCAL
ROAD CLASSIFICATION:	URBAN LOCAL
DESIGN SPEED:	25 MPH ECM TABLE 2-7
MIN. K-VALUE (CREST):	12 ECM TABLE 2-12
MIN. K-VALUE (SAG):	26 ECM TABLE 2-14

NO.	REVISION	BY	DATE
1	FOR PERMIT	JPS	4/01/19
2	COUNTY COMMENTS	JPS	4/29/19
3	COUNTY COMMENTS	JPS	6/09/19
4	COUNTY COMMENTS	JPS	3/12/20
5	COUNTY COMMENTS	JPS	4/08/20



**JPS ENGINEERING**  
19 E. Wilomette Ave.  
Colorado Springs, CO 80903  
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FAX: 719-471-0766  
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**CRP ARCHITECTS AIA**  
100 E. St. Vrain, Suite 300  
Colorado Springs, Colorado 80903

## TYPICAL SECTIONS & DESIGN DATA - PINEHURST CIRCLE

NORTH	DATE:	12/21/18
	DRAWN BY:	BJJ
	CHECKED BY:	JPS
	REVISED:	4/08/20

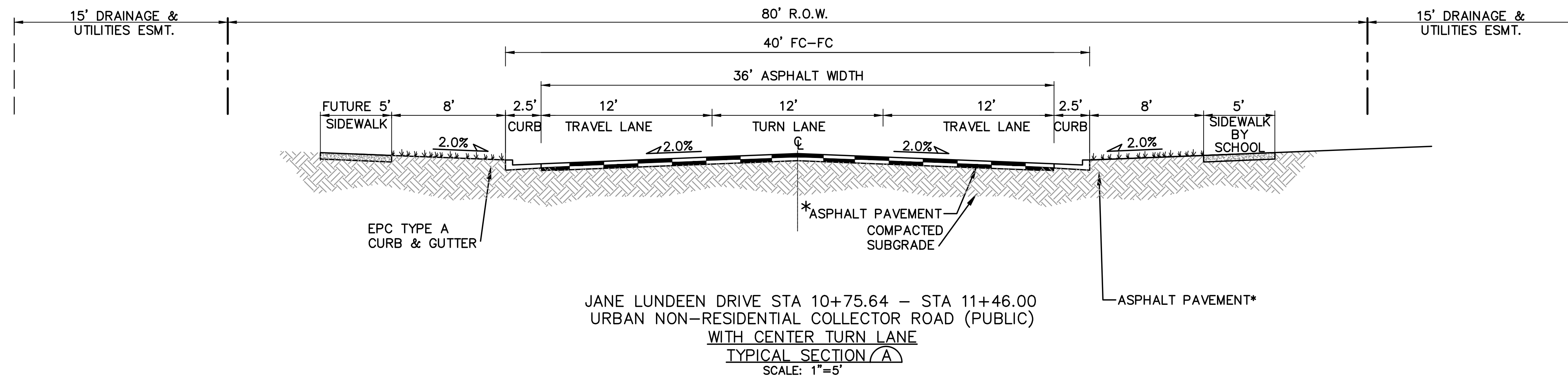
PCD PROJECT NO. CDR-20-001

EPC 5/27/2020 **TY1**

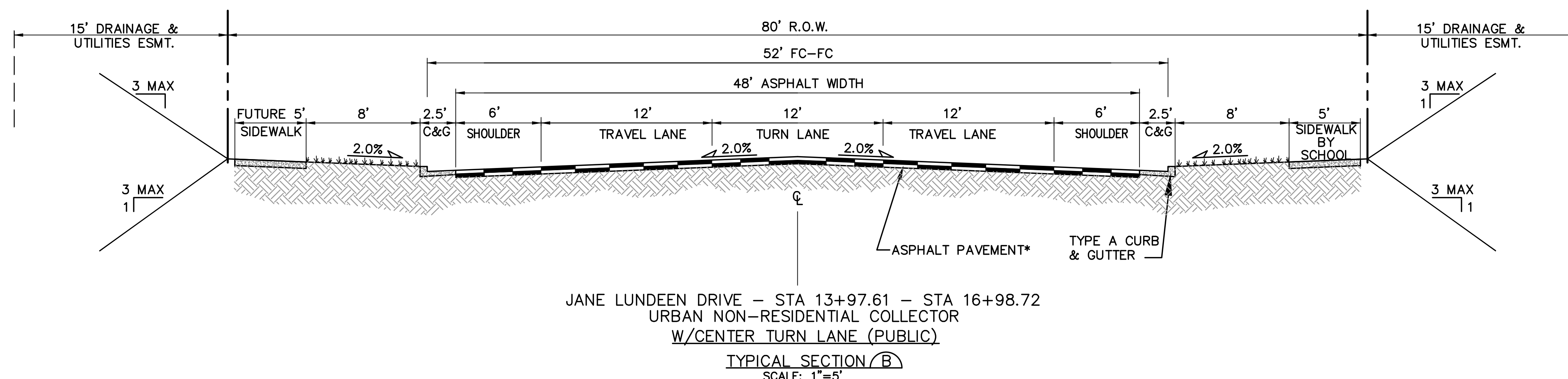
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# MONUMENT ACADEMY HIGH SCHOOL

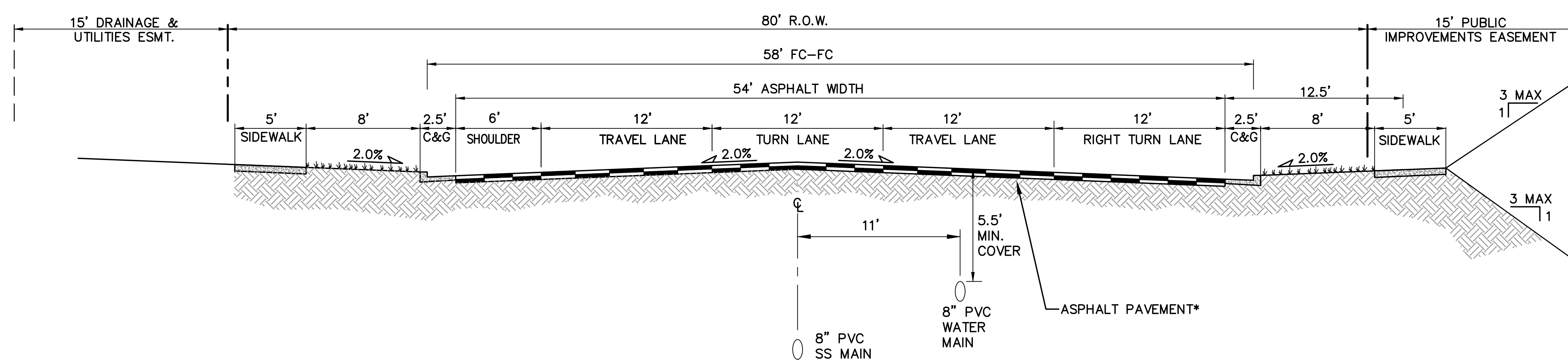
FOR CONSTRUCTION



\* PAVEMENT SECTION TO BE DESIGNED BY GEOTECHNICAL ENGINEER PER EPC SPECIFICATIONS.  
(\* 4" HBP OVER 6" ABC FOR BIDDING PURPOSES)



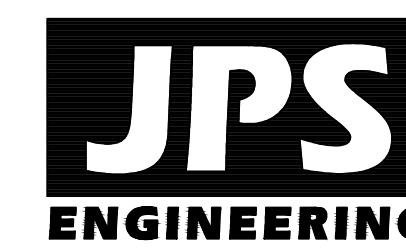
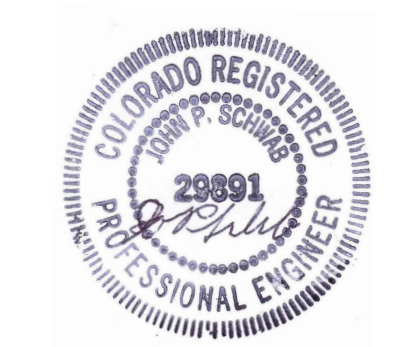
\* PAVEMENT SECTION TO BE DESIGNED BY GEOTECHNICAL ENGINEER PER EPC SPECIFICATIONS.  
(\* 4" HBP OVER 8" ABC FOR BIDDING PURPOSES)



\* PAVEMENT SECTION TO BE DESIGNED BY GEOTECHNICAL ENGINEER PER EPC SPECIFICATIONS.  
(\* 4" HBP OVER 8" ABC FOR BIDDING PURPOSES)

## DESIGN DATA

ROAD CLASSIFICATION:	URBAN NON-RESIDENTIAL COLLECTOR	REFERENCE STANDARD
DESIGN SPEED:	40 MPH	ECM TABLE 2-7
POSTED SPEED:	35 MPH	ECM TABLE 2-7
ROADWAY WIDTH:	48' EOA-EOA	ECM FIGURE 2-14
MIN. HORIZONTAL RADIUS:	565'	ECM TABLE 2-7
MIN. GRADE:	0.5%	ECM TABLE 2-7
MAX. GRADE:	6.0%	ECM TABLE 2-7
MIN. K-VALUE (CREST):	44	ECM TABLE 2-13
MIN. K-VALUE (SAG):	64	ECM TABLE 2-15



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100 E. St. Vrain, Suite 300  
Colorado Springs, Colorado 80903

## TYPICAL SECTIONS & DESIGN DATA - JANE LUNDEEN DRIVE

NORTH  
DATE: 12/21/18  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 4/08/20

NO.	REVISION	BY	DATE
△	FOR PERMIT	JPS	4/01/19
△	COUNTY COMMENTS	JPS	4/29/19
△	COUNTY COMMENTS	JPS	8/09/19
△	COUNTY COMMENTS	JPS	3/12/20
△	COUNTY COMMENTS	JPS	4/08/20

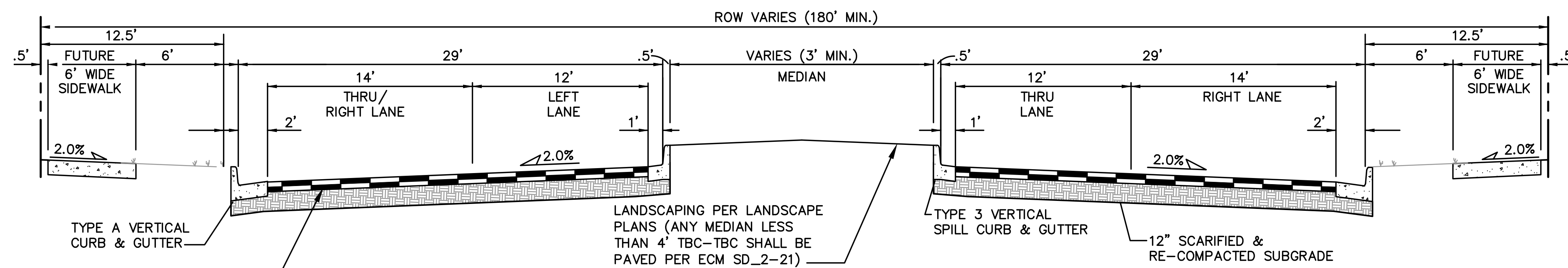
PCD PROJECT NO. CDR-20-001

EPC 5/27/2020

TY2

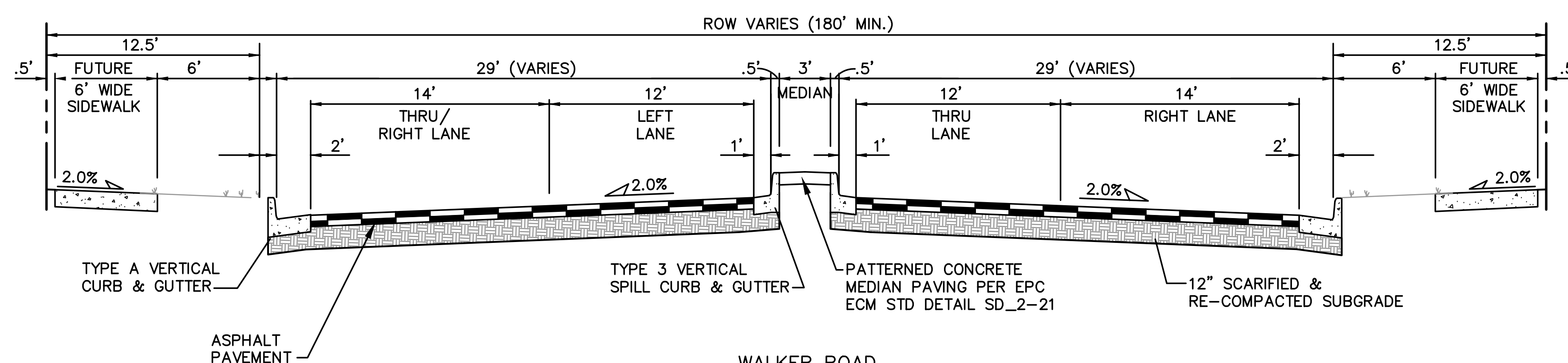
# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION



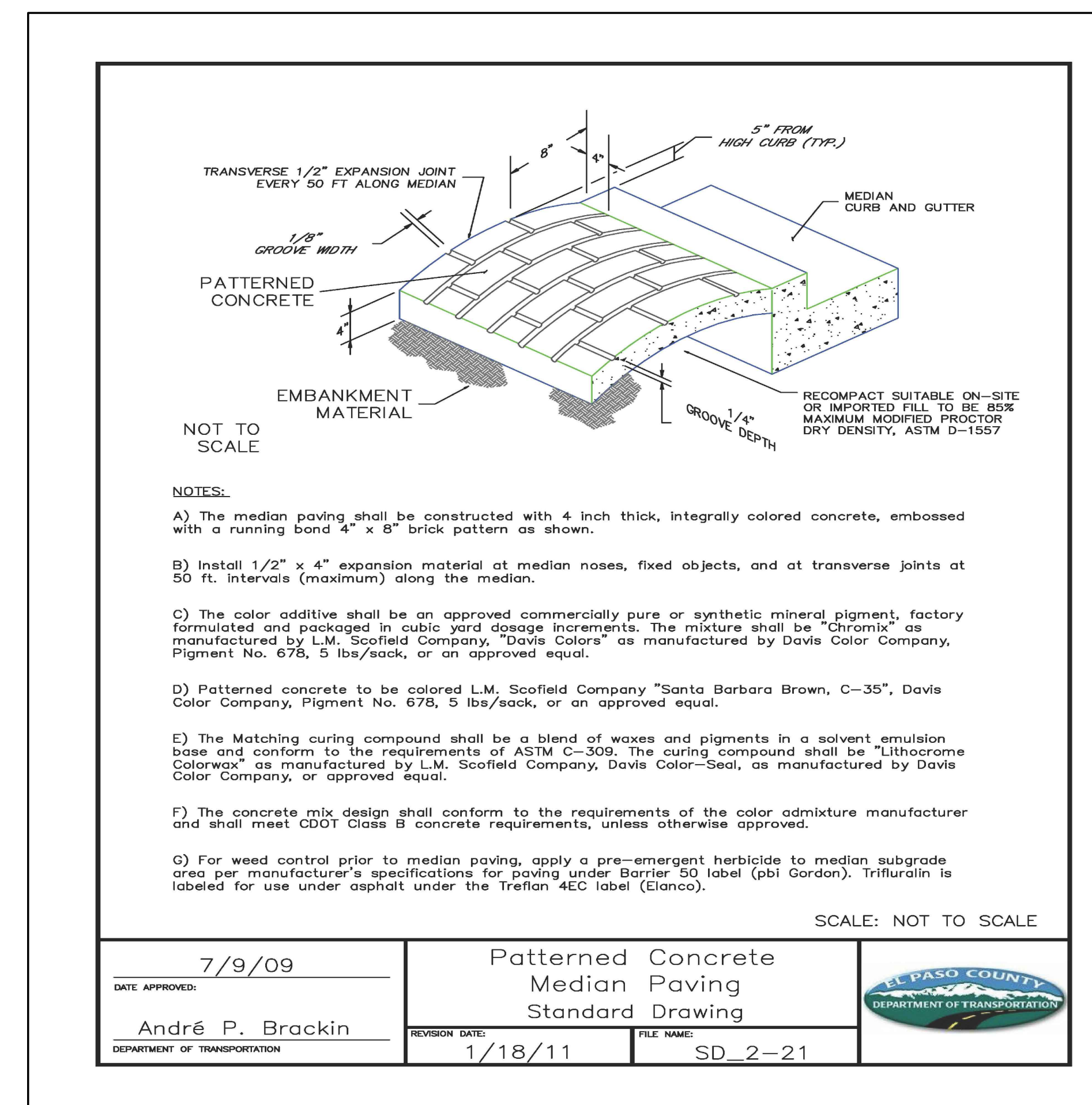
WALKER ROAD - STA 10+39.80 - STA 16+85.54  
URBAN PRINCIPAL ARTERIAL - APPROACHING ROUNDABOUT  
TYPICAL SECTION (A)  
SCALE: 1"=5'

\* PAVEMENT SECTION TO BE DESIGNED BY GEOTECHNICAL ENGINEER PER EPC SPECIFICATIONS. (4" HBP OVER 8" ABC FOR BIDDING PURPOSES)



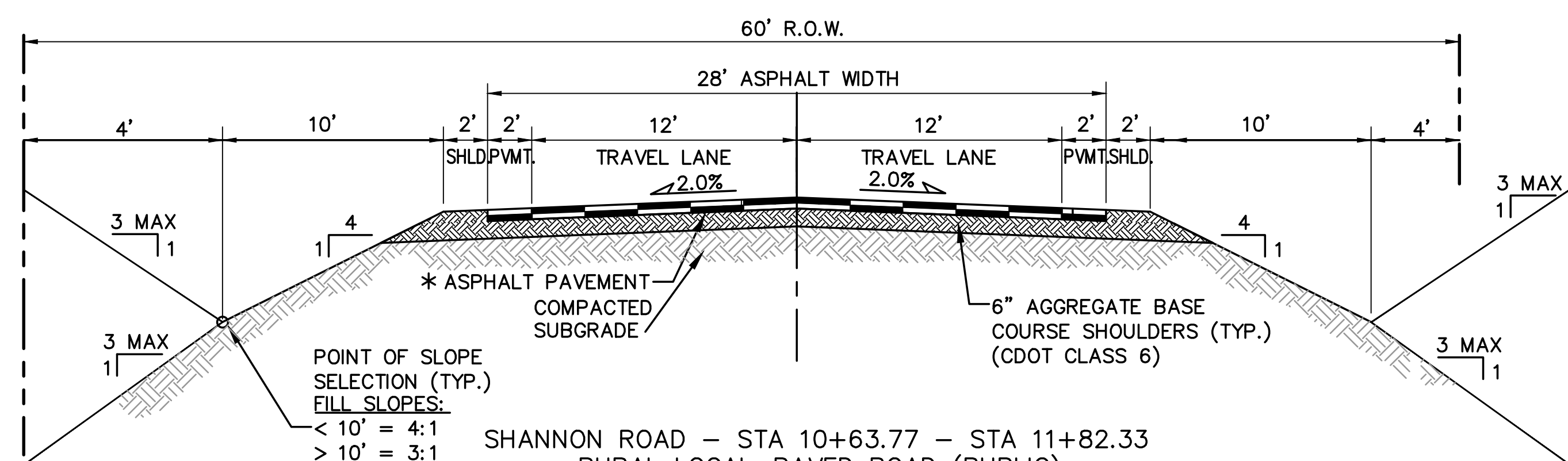
WALKER ROAD - STA 19+86.44 - STA 21+53.82  
URBAN PRINCIPAL ARTERIAL - APPROACHING ROUNDABOUT  
TYPICAL SECTION (B)  
SCALE: 1"=5'

\* PAVEMENT SECTION TO BE DESIGNED BY GEOTECHNICAL ENGINEER PER EPC SPECIFICATIONS. (4" HBP OVER 8" ABC FOR BIDDING PURPOSES)



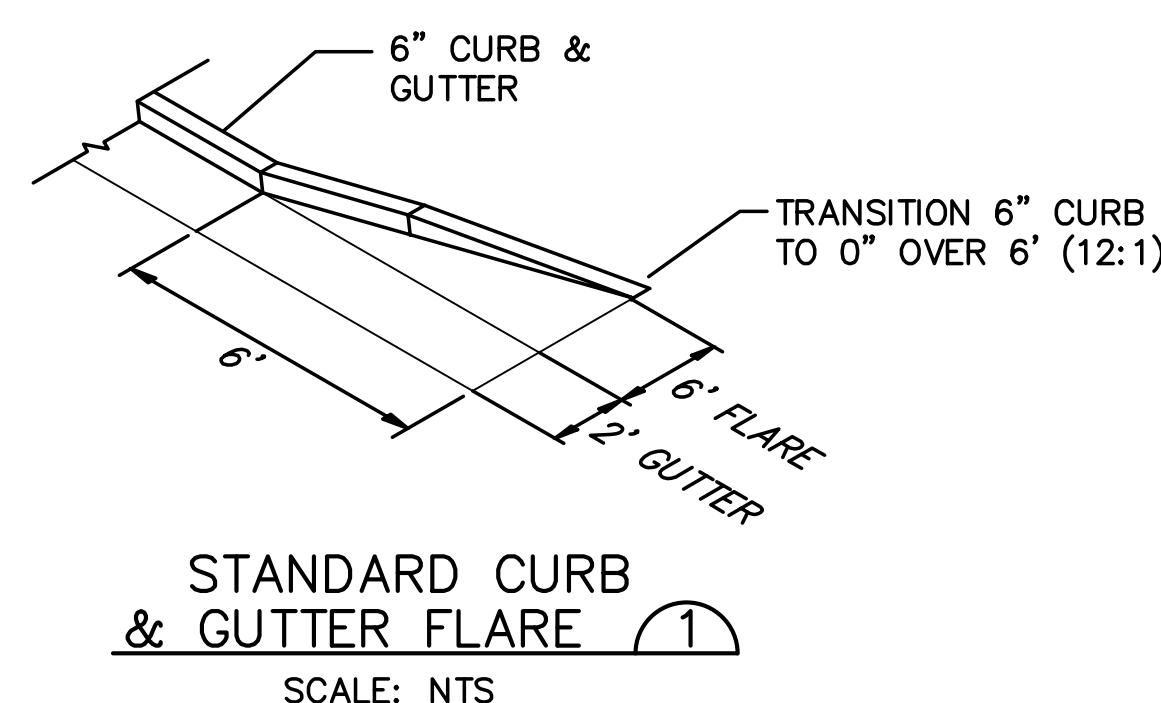
- NOTES:
- The median paving shall be constructed with 4 inch thick, integrally colored concrete, embossed with a running band 4" x 8" brick pattern as shown.
  - Install 1/2" x 4" expansion material at median noses, fixed objects, and at transverse joints at 50 ft. intervals (maximum) along the median.
  - The color additive shall be an approved commercially pure or synthetic mineral pigment, factory formulated and packaged in cubic yard dosage increments. The mixture shall be "Chromix" as manufactured by L.M. Scofield Company, "Davis Colors" as manufactured by Davis Color Company, Pigment No. 678, 5 lb./assk, or an approved equal.
  - Patterned concrete to be colored L.M. Scofield Company "Santa Barbara Brown, C-35", Davis Color Company, Pigment No. 678, 5 lb./assk, or an approved equal.
  - The Matching curing compound shall be a blend of waxes and pigments in a solvent emulsion base and conform to the requirements of ASTM C-309. The curing compound shall be "Lithonome Colorwax" as manufactured by L.M. Scofield Company, Davis Color-Seal, as manufactured by Davis Color Company, or approved equal.
  - The concrete mix design shall conform to the requirements of the color admixture manufacturer and shall meet CDOT Class B concrete requirements, unless otherwise approved.
  - For weed control prior to median paving, apply a pre-emergent herbicide to median subgrade area per manufacturer's specifications for paving under Barrier 50 label (pbi Gordon). Trifluralin is labeled for use under asphalt under the Treflan 4EC label (Eanco).

DATE APPROVED: 7/9/09	DESIGNER: André P. Brackin	REVISION DATE: 1/18/11	FILE NAME: SD_2-21
Patterned Concrete Median Paving Standard Drawing		J.P. PASO COUNTY DEPARTMENT OF TRANSPORTATION	



SHANNON ROAD - STA 10+63.77 - STA 11+82.33  
RURAL LOCAL-PAVED ROAD (PUBLIC)  
TYPICAL SECTION (C)  
SCALE: 1"=5'

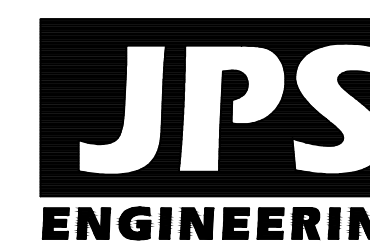
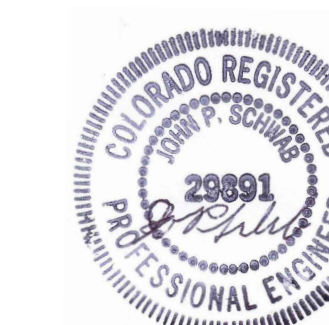
\* PAVEMENT SECTION TO BE DESIGNED BY GEOTECHNICAL ENGINEER PER EPC SPECIFICATIONS. (4" HBP OVER 6" ABC FOR BIDDING PURPOSES)



DESIGN DATA	4 LANE RURAL PRINCIPAL ARTERIAL (ULTIMATE)	REFERENCE STANDARD
ROAD CLASSIFICATION:	4 LANE RURAL PRINCIPAL ARTERIAL (ULTIMATE)	
DESIGN SPEED:	70 MPH	ECM TABLE 2-4
POSTED SPEED:	65 MPH	ECM TABLE 2-4
ROADWAY WIDTH:	48' EOA-EOA	ECM FIGURE 2-4
MIN. HORIZONTAL RADIUS:	2,510'	ECM TABLE 2-4
MIN. GRADE:	1.0%	ECM TABLE 2-4
MAX. GRADE:	5.0%	ECM TABLE 2-4
MIN. K-VALUE (CREST):	247	ECM TABLE 2-13
MIN. K-VALUE (SAG):	181	ECM TABLE 2-15

DESIGN DATA	URBAN LOCAL	REFERENCE STANDARD
ROAD CLASSIFICATION:	URBAN LOCAL	
DESIGN SPEED:	25 MPH	ECM TABLE 2-7
POSTED SPEED:	25 MPH	ECM TABLE 2-7
ROADWAY WIDTH:	30' EOA-EOA	ECM TABLE 2-7
MIN. HORIZONTAL RADIUS:	200'	ECM TABLE 2-5
MIN. GRADE:	0.5%	ECM TABLE 2-7
MAX. GRADE:	8.0%	ECM TABLE 2-7
MIN. K-VALUE (CREST):	12	ECM TABLE 2-13
MIN. K-VALUE (SAG):	26	ECM TABLE 2-15

NO.	REVISION	BY	DATE
1	FOR PERMIT	JPS	4/01/19
2	COUNTY COMMENTS	JPS	4/29/19
3	COUNTY COMMENTS	JPS	8/07/19
4	COUNTY COMMENTS	JPS	3/04/20
5	COUNTY COMMENTS	JPS	4/08/20
6	COUNTY COMMENTS	JPS	5/05/20



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TYPICAL SECTIONS &  
DESIGN DATA -  
WALKER ROAD

NORTH DATE: 7/25/19  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 5/05/20

PCD PROJECT NO. CDR-20-001

EPC 5/27/2020

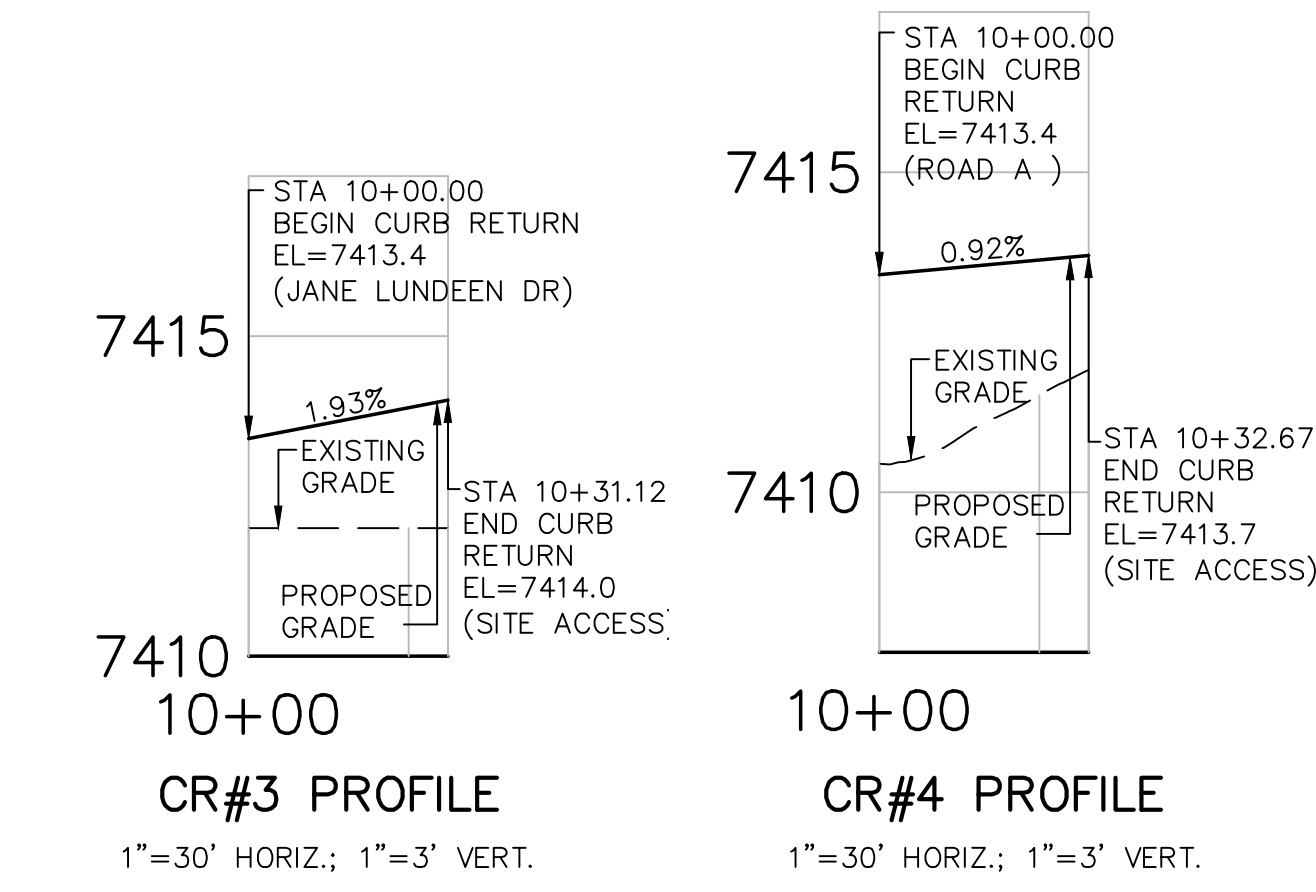
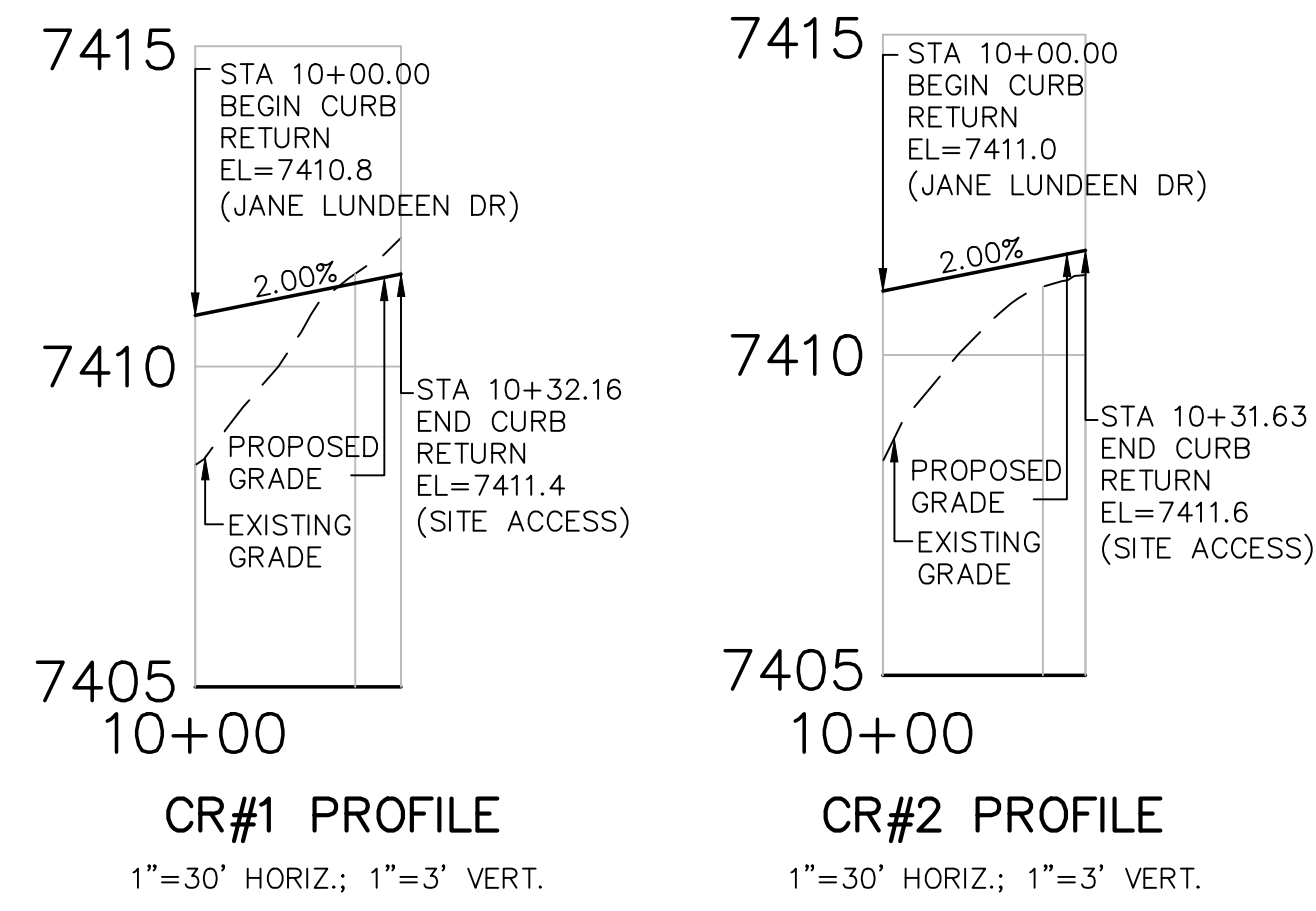
TY3



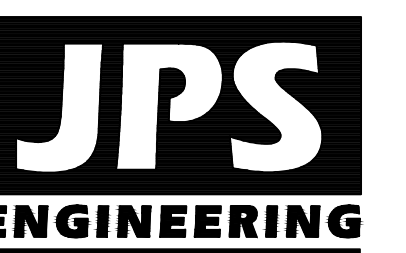
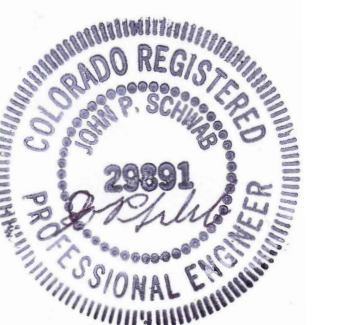
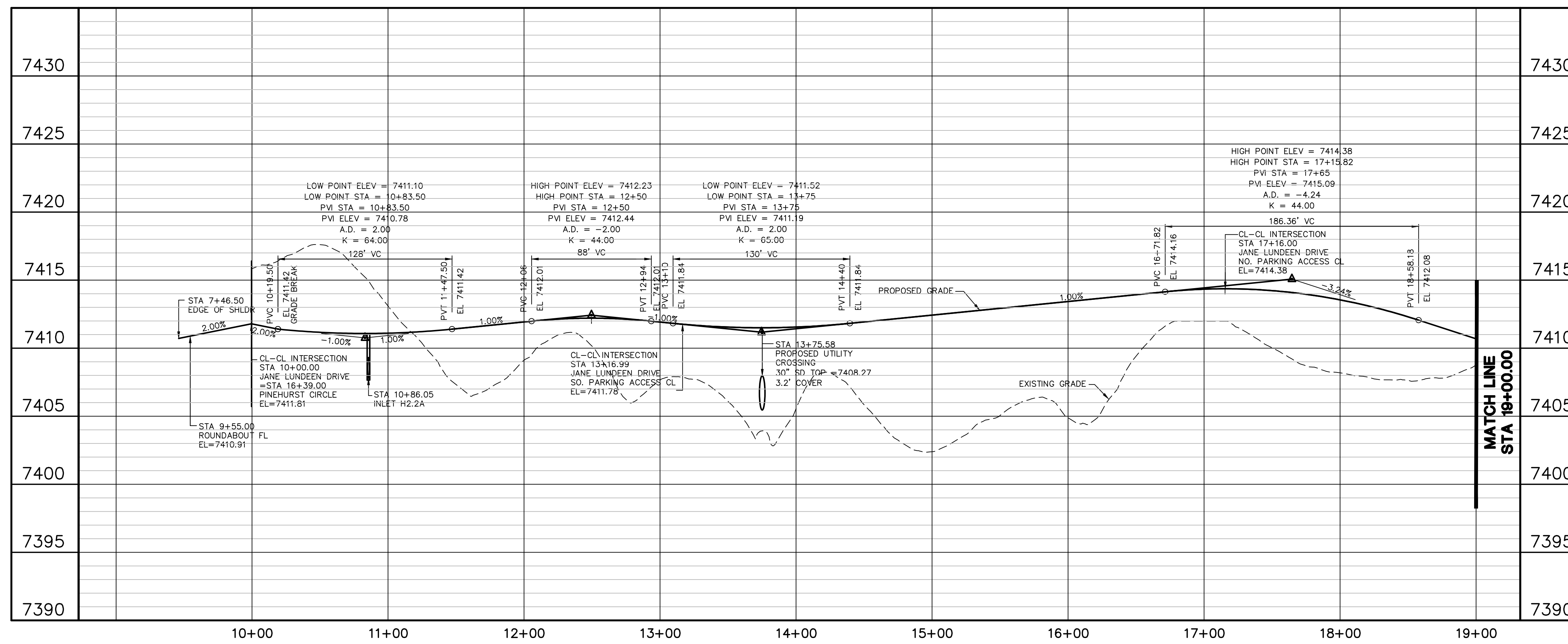
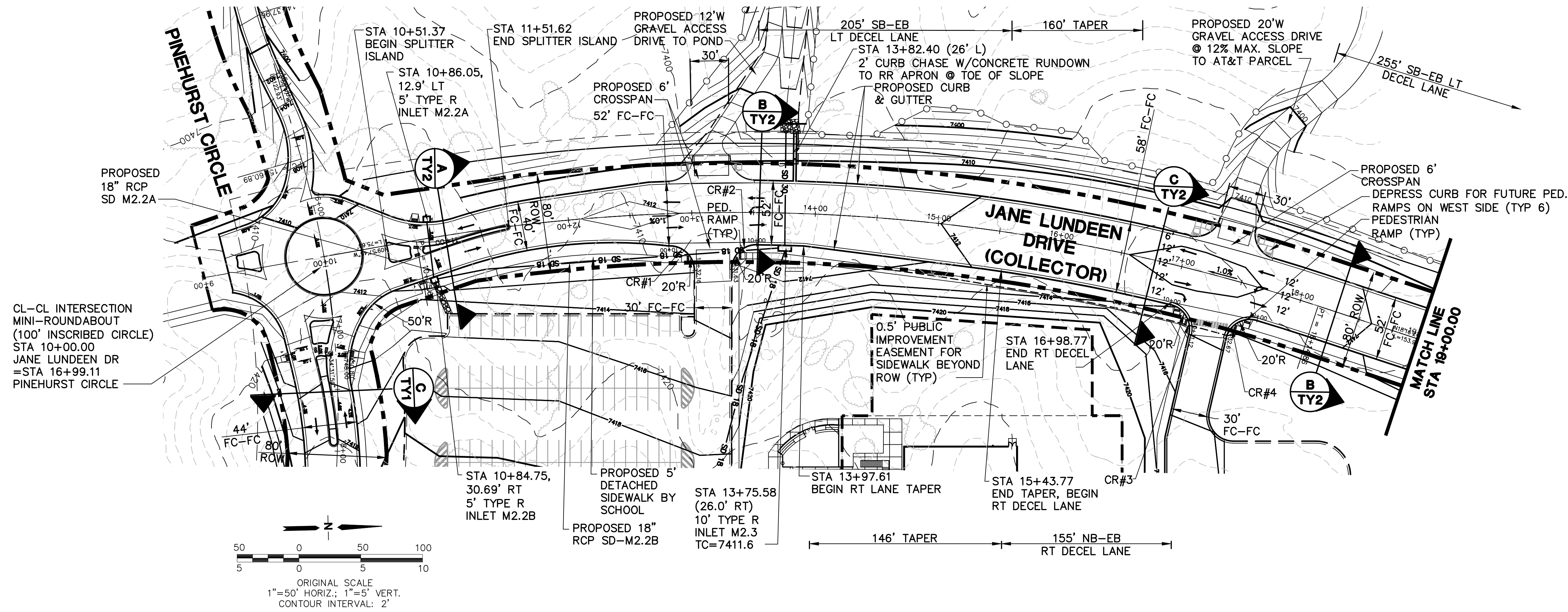
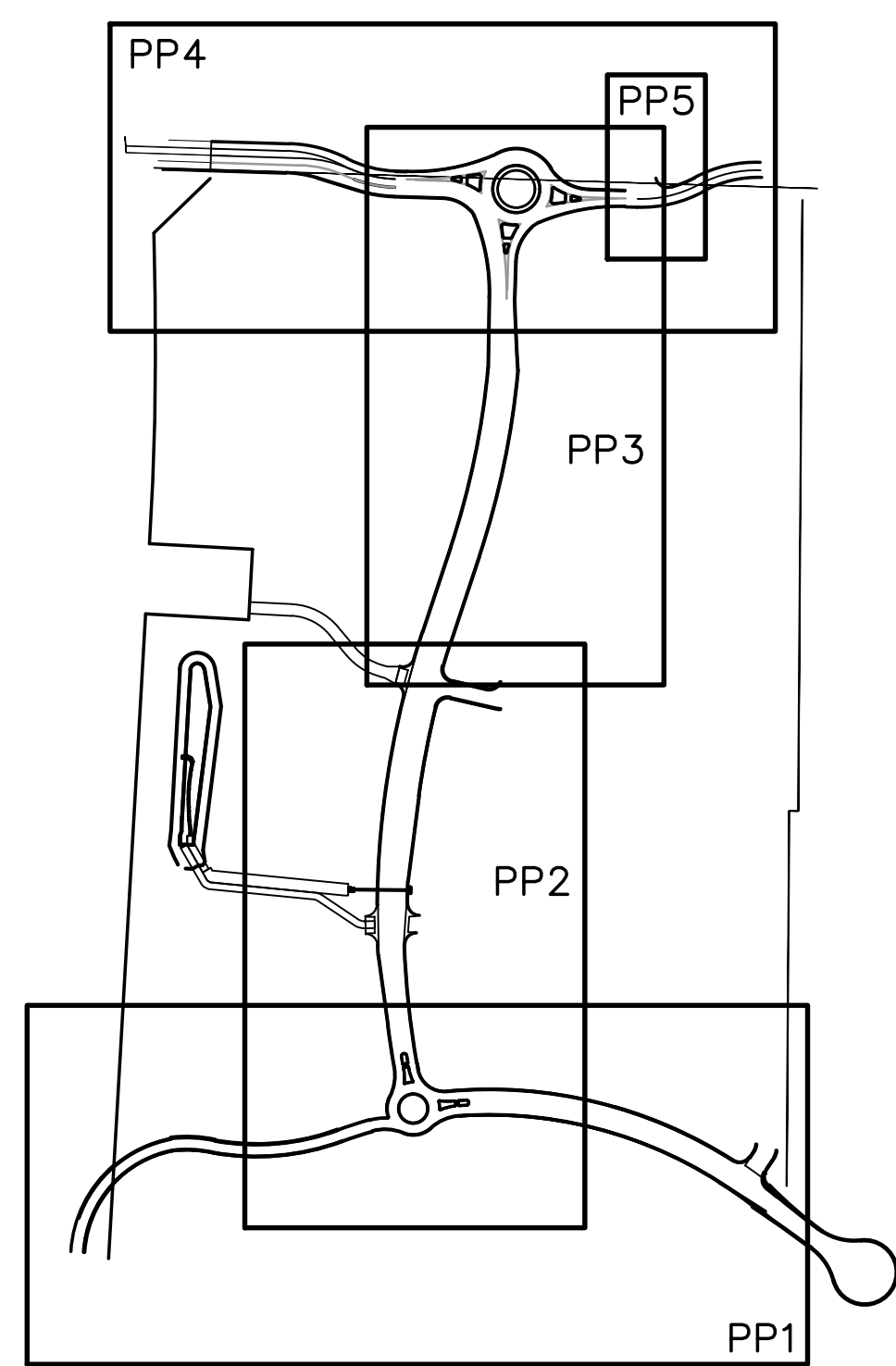


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FOR CONSTRUCTION



SCHOOL ACCESS CURB RETURN PROFILES



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## JANE LUNDEEN DRIVE PLAN & PROFILE

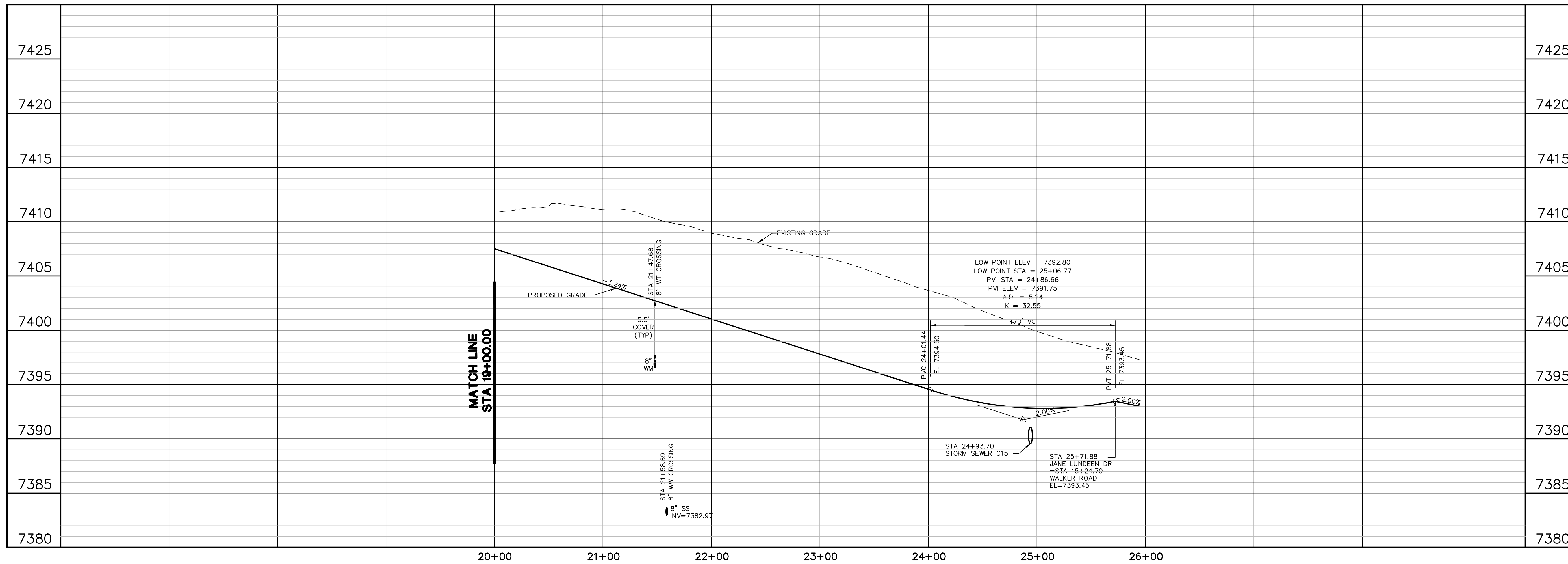
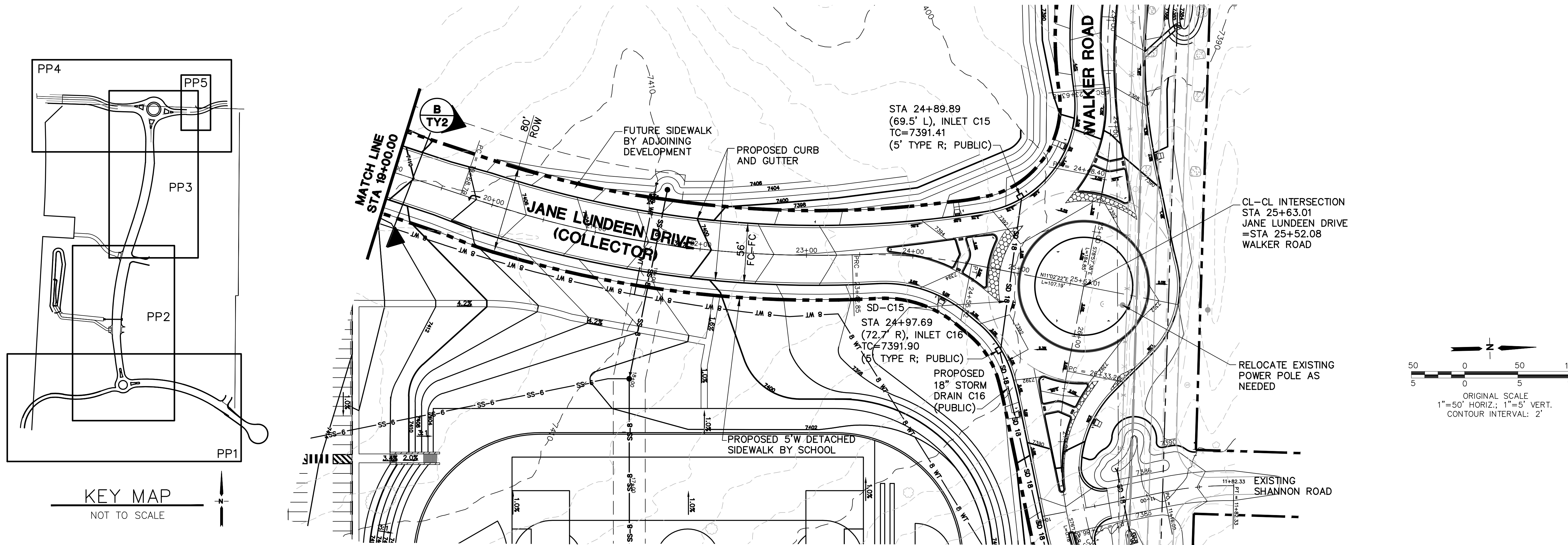
NO.	REVISION	BY	DATE
1	FOR PERMIT	JPS	4/22/19
2	COUNTY COMMENTS	JPS	4/29/19
3	COUNTY COMMENTS	JPS	8/09/19
4	COUNTY COMMENTS	JPS	3/04/20
5	COUNTY COMMENTS	JPS	4/08/20
6	COUNTY COMMENTS	JPS	4/29/20
7	COUNTY COMMENTS	JPS	5/15/20

DATE: 12/21/18  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 5/15/20

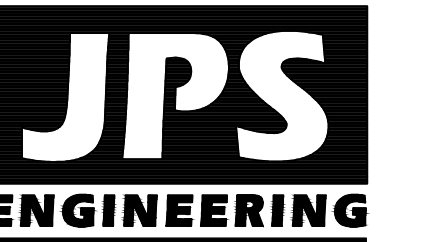
PCD PROJECT NO. CDR-20-001

# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION



NO.	REVISION	BY	DATE
1	FOR PERMIT	JPS	4/01/19
2	COUNTY COMMENTS	JPS	4/29/19
3	COUNTY COMMENTS	JPS	8/15/19
4	ROUNDOABOUT REVISION	JPS	3/04/20
5	COUNTY COMMENTS	JPS	4/08/20
6	COUNTY COMMENTS	JPS	5/15/20



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## JANE LUNDEEN DRIVE PLAN & PROFILE

DATE: 12/21/18  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 5/15/20

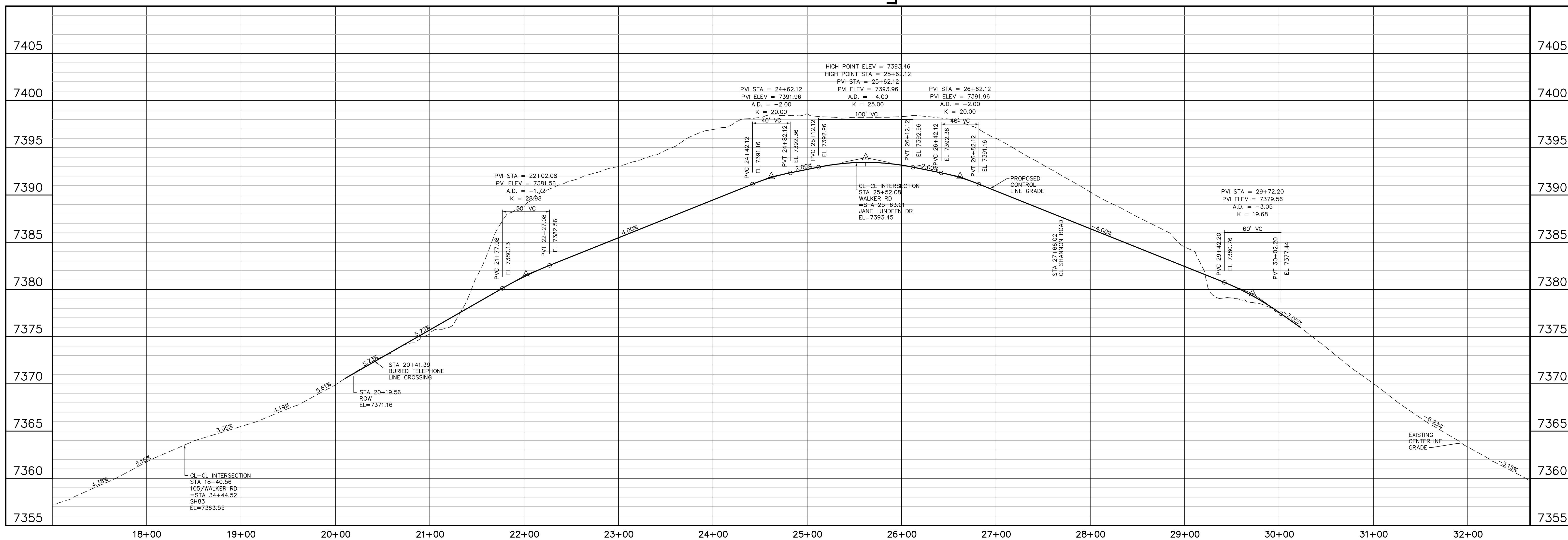
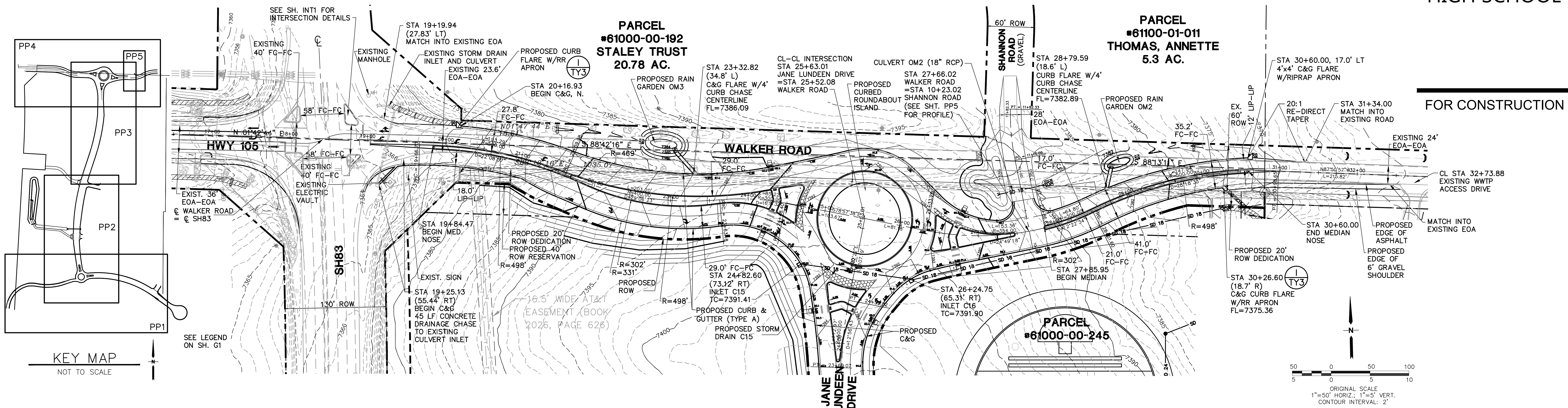
PCD PROJECT NO. CDR-20-001

EPC 5/27/2020

PP3

# MONUMENT ACADEMY HIGH SCHOOL

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ENGINEERING

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NO.	REVISION	BY	DATE
1	FOR PERMIT	JPS	4/22/19
2	COUNTY COMMENTS	JPS	4/29/19
3	COUNTY COMMENTS	JPS	8/15/19
4	COUNTY COMMENTS	JPS	1/09/20
5	ROUNDABOUT DESIGN	JPS	3/04/20
6	ROUNDABOUT DESIGN	JPS	3/31/20
7	COUNTY COMMENTS	JPS	4/08/20
8	COUNTY COMMENTS	JPS	5/15/20

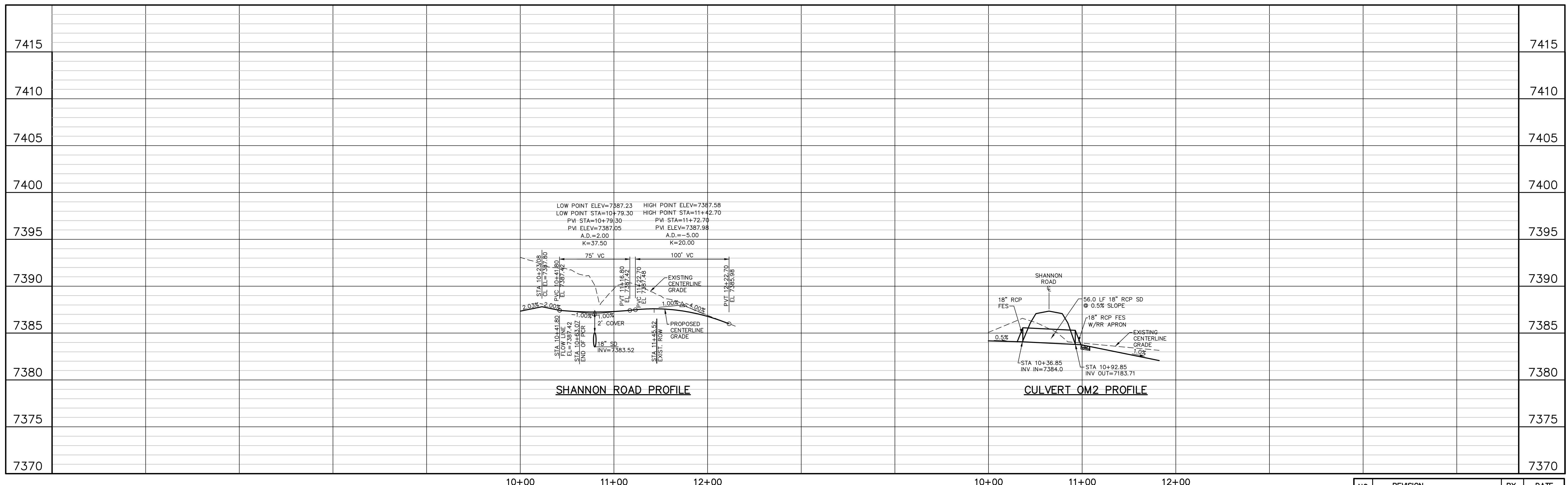
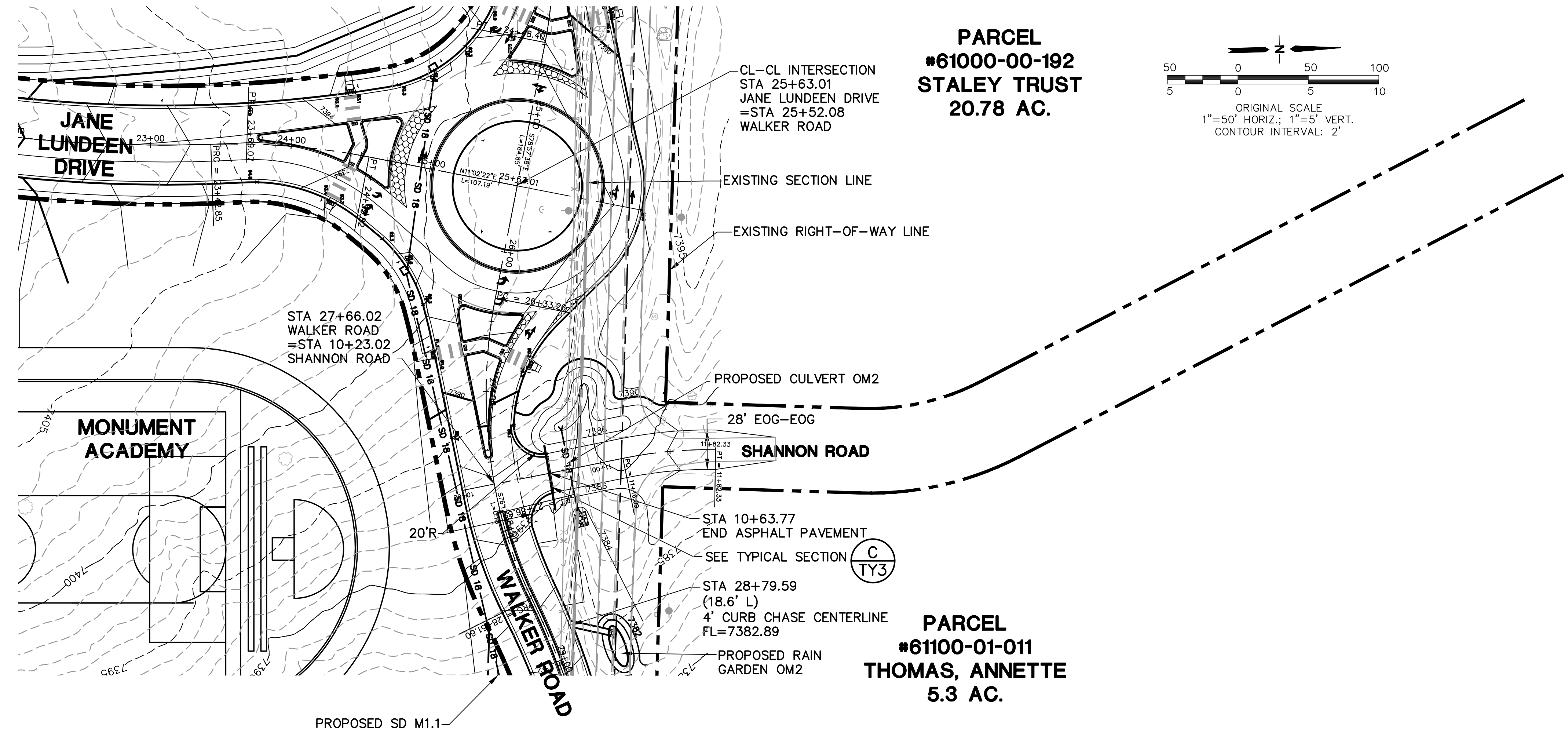
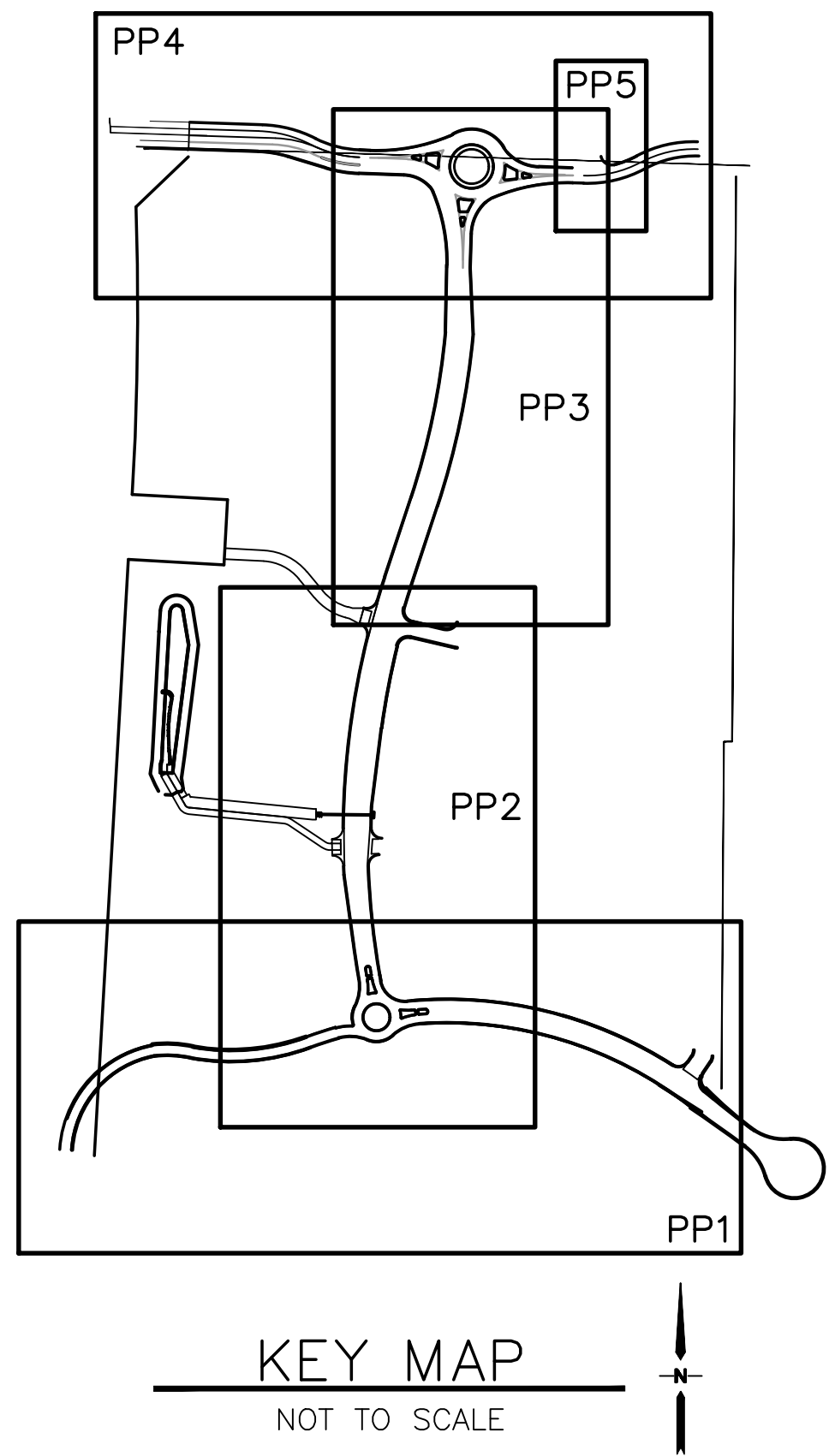
**NORTH**  
DATE: 2/08/19  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 5/15/20

PCD PROJECT NO. CDR-20-001

PP4

# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION



NO.	REVISION	BY	DATE
1	FOR PERMIT	JPS	4/22/19
2	COUNTY COMMENTS	JPS	4/29/19
3	COUNTY COMMENTS	JPS	8/15/19
4	COUNTY COMMENTS	JPS	1/09/20
5	ROUNDABOUT DESIGN	JPS	3/04/20
6	ROUNDABOUT DESIGN	JPS	3/30/20
7	COUNTY COMMENTS	JPS	4/08/20
8	COUNTY COMMENTS	JPS	5/15/20

**JPS ENGINEERING**

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Colorado Springs, CO 80903

PH: 719-477-9429  
FAX: 719-471-0766  
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## SHANNON ROAD PLAN & PROFILE

**NORTH**

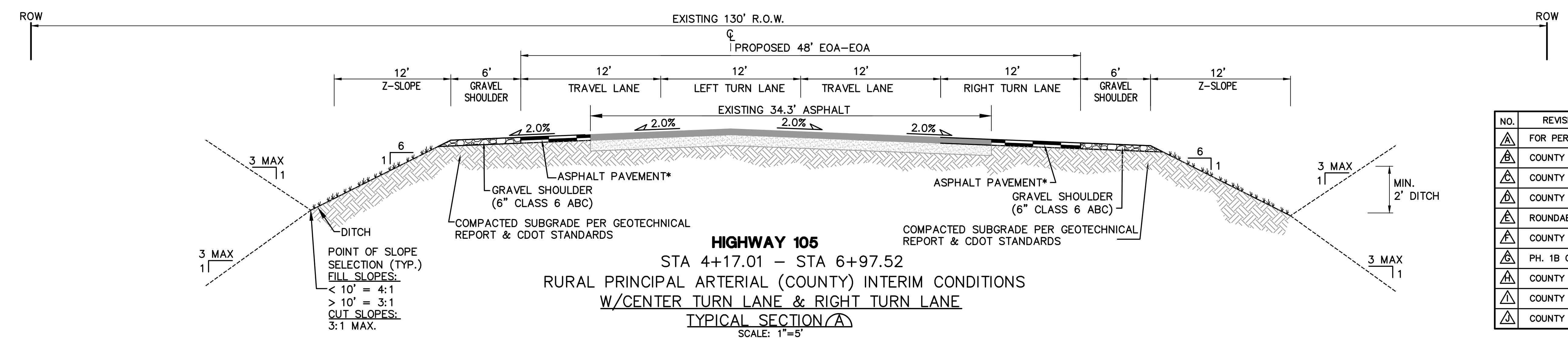
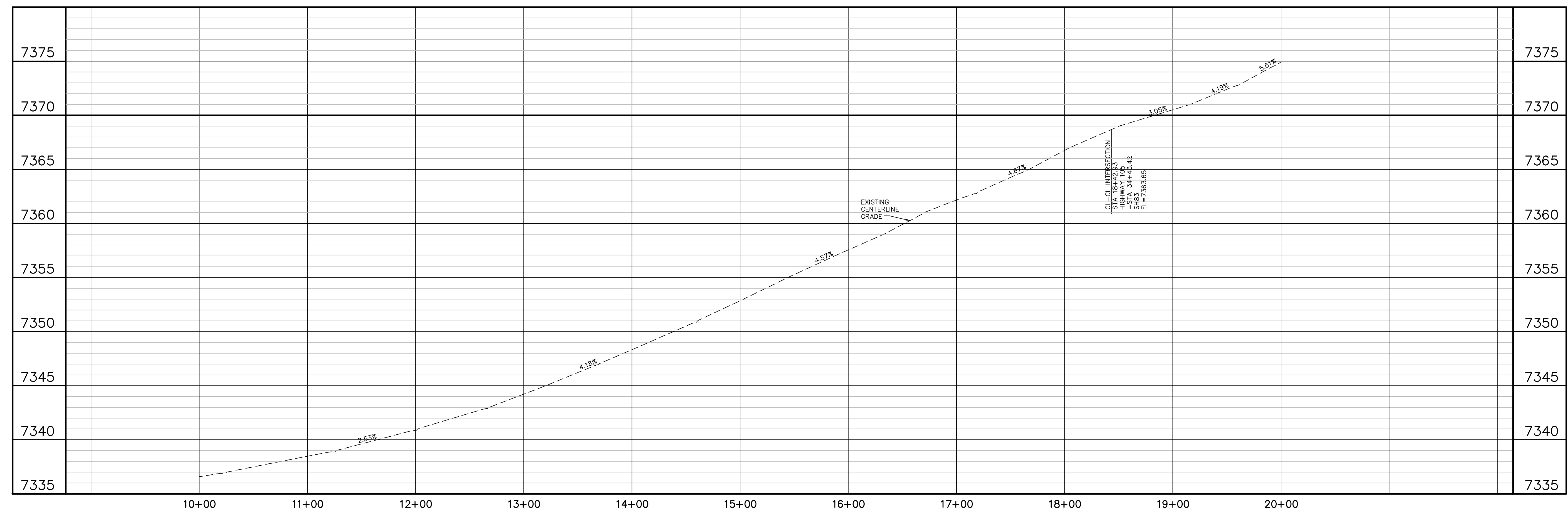
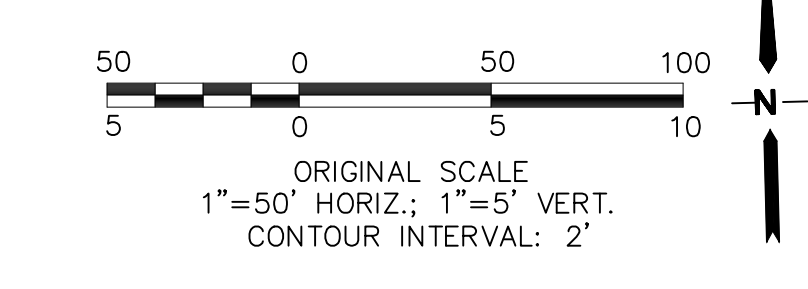
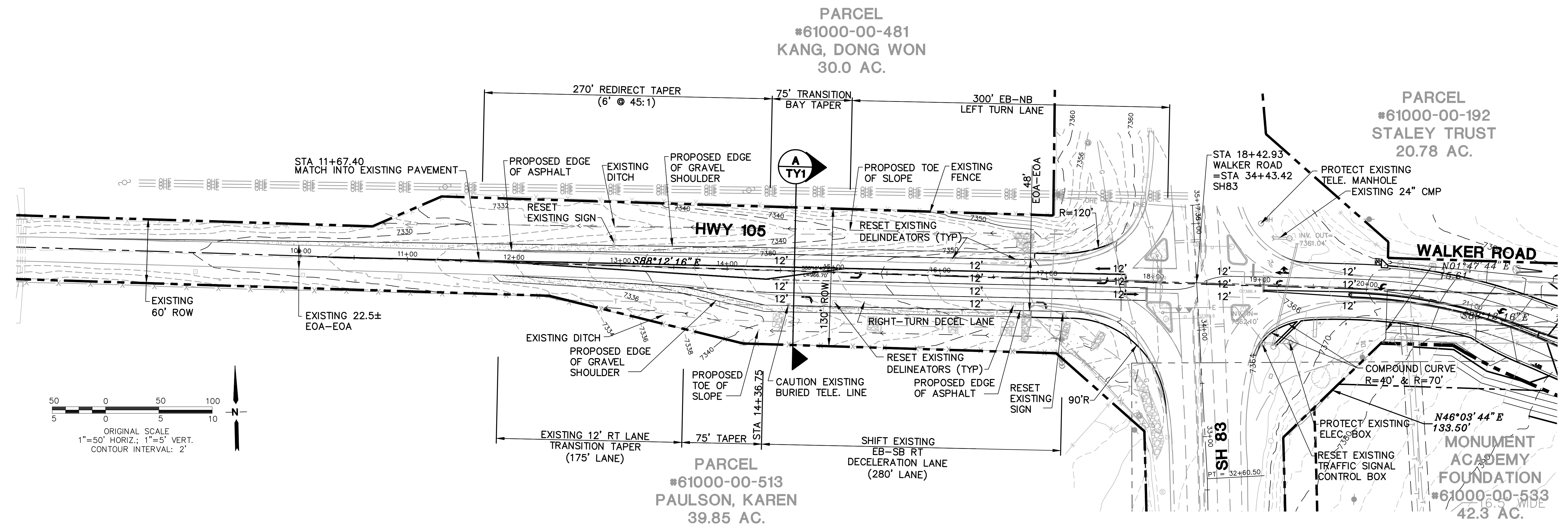
DATE: 3/31/19  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 5/15/20

PCD PROJECT NO. CDR-20-001

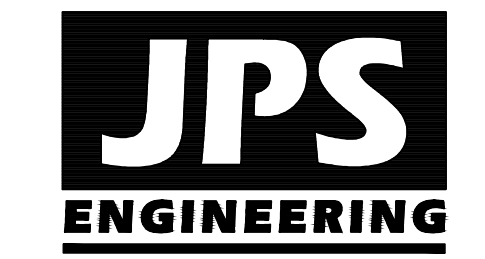
EPC 5/27/2020 **PP5**

MONUMENT  
ACADEMY  
HIGH SCHOOL

FOR CONSTRUCTION



NO.	REVISION	BY	DATE
1	FOR PERMIT	JPS	4/01/19
2	COUNTY COMMENTS	JPS	4/29/19
3	COUNTY COMMENTS	JPS	6/20/19
4	COUNTY COMMENTS	JPS	8/23/19
5	ROUNDBOUT REVISIONS	JPS	11/29/19
6	COUNTY COMMENTS	JPS	2/27/20
7	PH. 1B GEC PLANS	JPS	3/16/20
8	COUNTY COMMENTS	JPS	4/08/20
9	COUNTY COMMENTS	JPS	5/05/20
10	COUNTY COMMENTS	JPS	5/15/20



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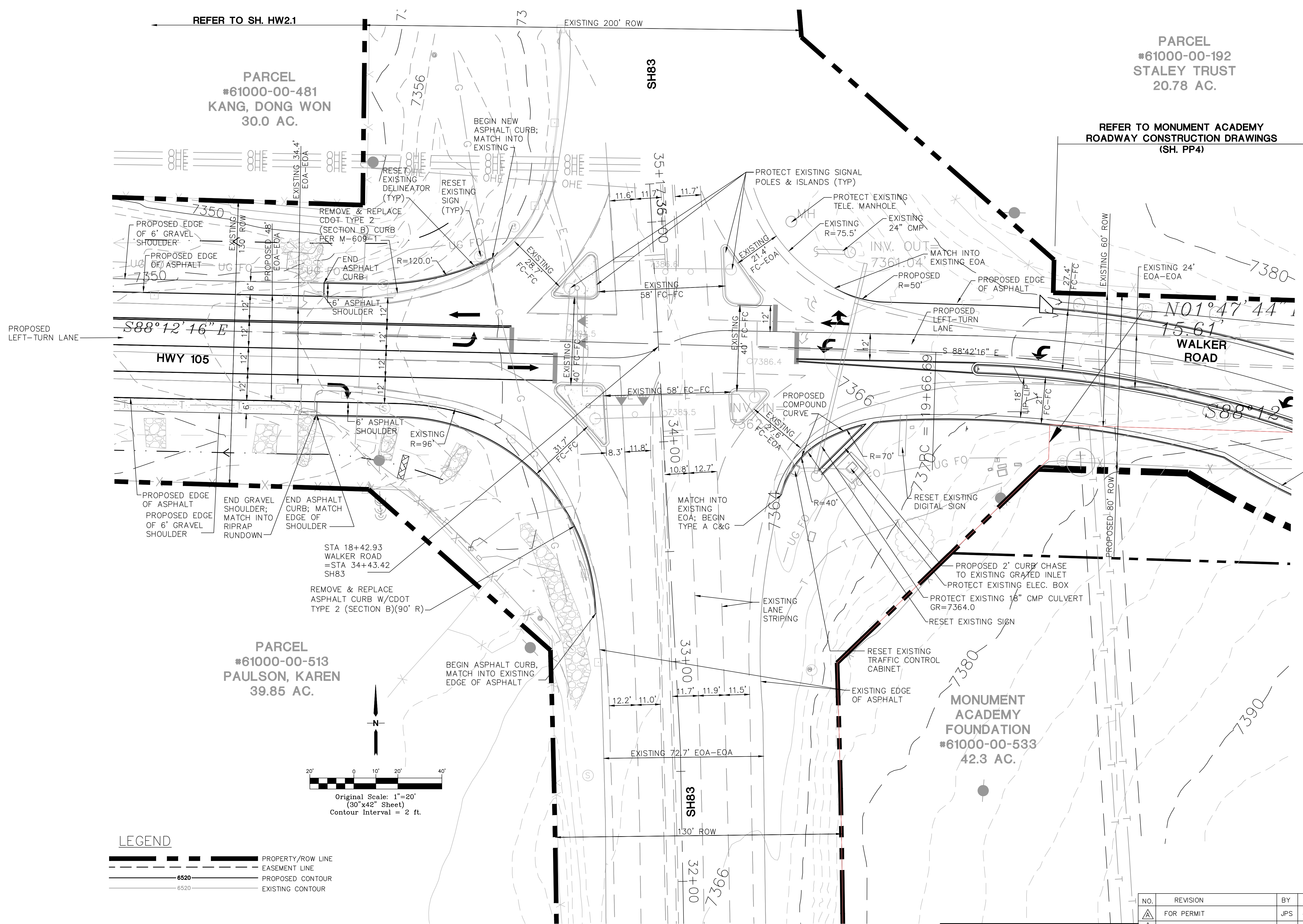
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Colorado Springs, Colorado 80903

HIGHWAY 105 PLAN & PROFILE

SCALE: 1"=50'  
NORTH  
DATE: 12/20/18  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 5/15/20

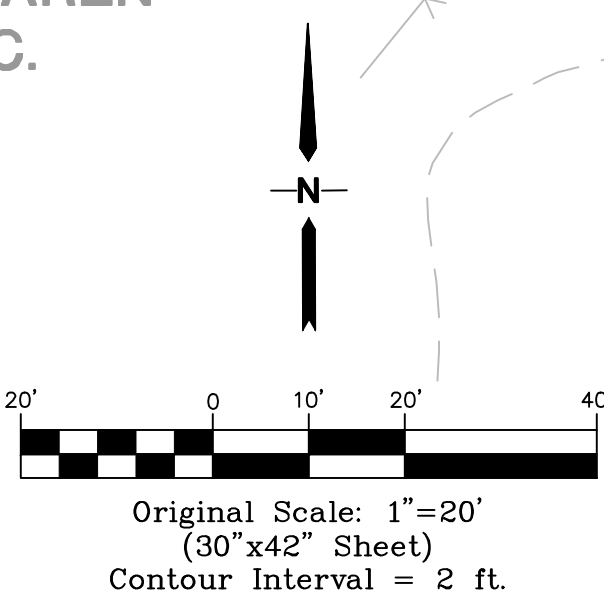
# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION



**LEGEND**

	PROPERTY/ROW LINE
	EASEMENT LINE
	PROPOSED CONTOUR
	EXISTING CONTOUR



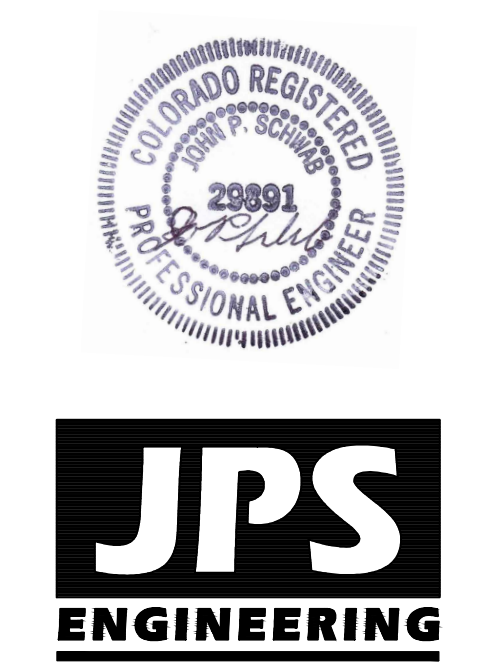
NOTE: CONSTRUCTION WITHIN SH83 ROW IS SUBJECT TO FINAL CDOT PLAN APPROVAL AND NTP.

**TRAFFIC SIGNAL NOTES:**  
REFER TO TRAFFIC SIGNAL IMPROVEMENT PLANS BY LSC FOR INSTALLATION OF NEW LEFT-TURN SIGNAL HEADS FOR EAST AND WEST BOUND LEFT-TURN MOVEMENTS

NO.	REVISION	BY	DATE
1	FOR PERMIT	JPS	4/01/19
2	COUNTY COMMENTS	JPS	4/29/19
3	COUNTY COMMENTS	JPS	8/09/19
4	COUNTY COMMENTS	JPS	3/16/20
5	COUNTY COMMENTS	JPS	4/08/20
6	COUNTY COMMENTS	JPS	5/05/20
7	COUNTY COMMENTS	JPS	5/15/20

**SH83 / HWY 105 WALKER ROAD INTERSECTION**

**NORTH** DATE: 3/16/20  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 5/15/20



**JPS ENGINEERING**  
19 E. Willamette Ave.  
Colorado Springs, CO 80903  
PH: 719-477-9429  
FAX: 719-471-0766  
www.jpsegr.com

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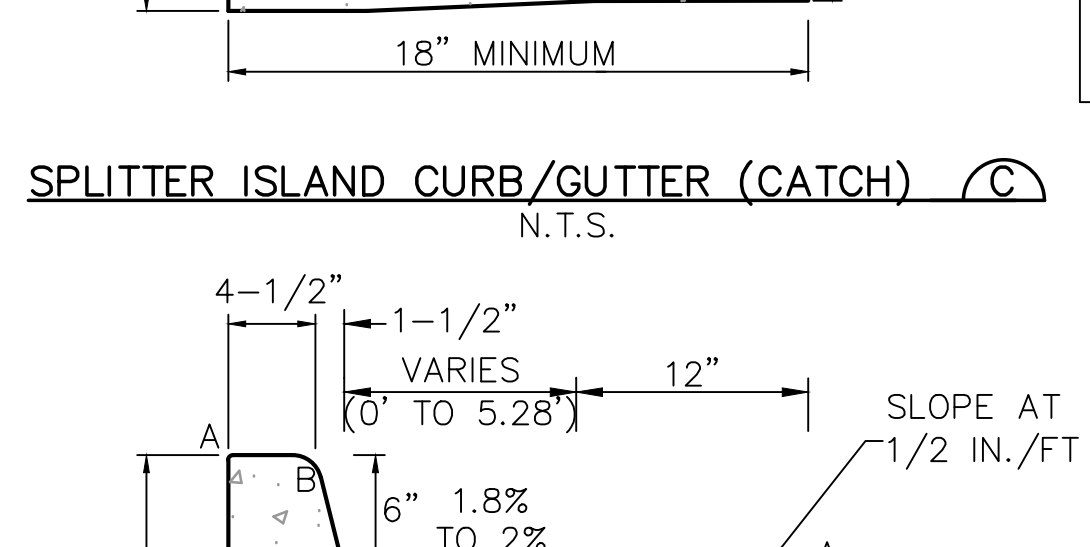
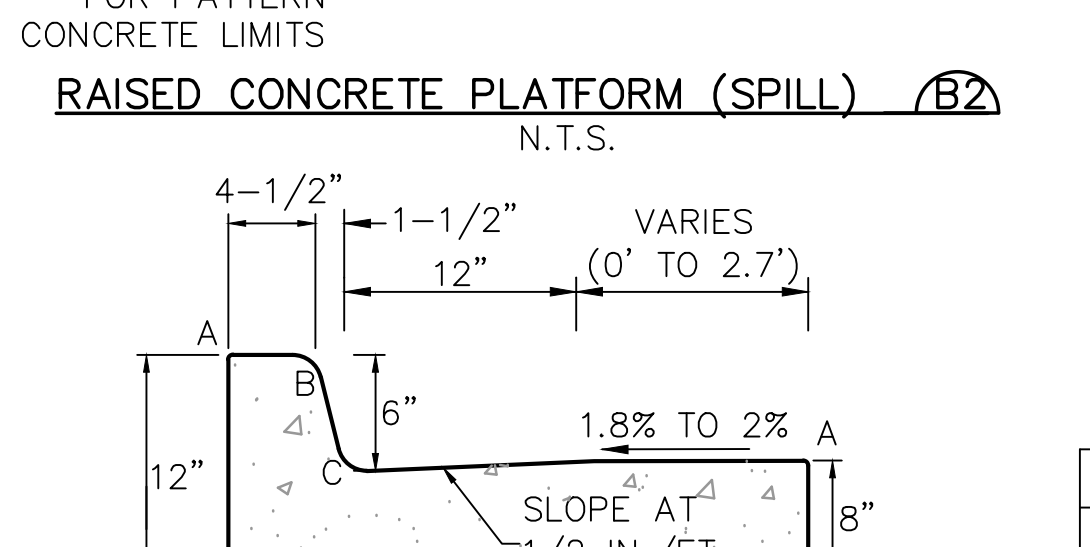
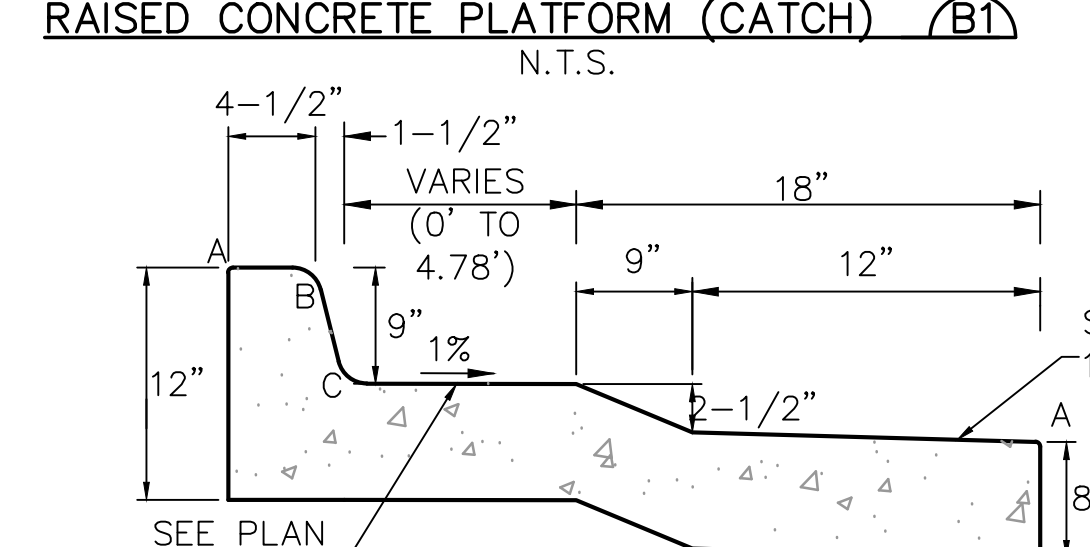
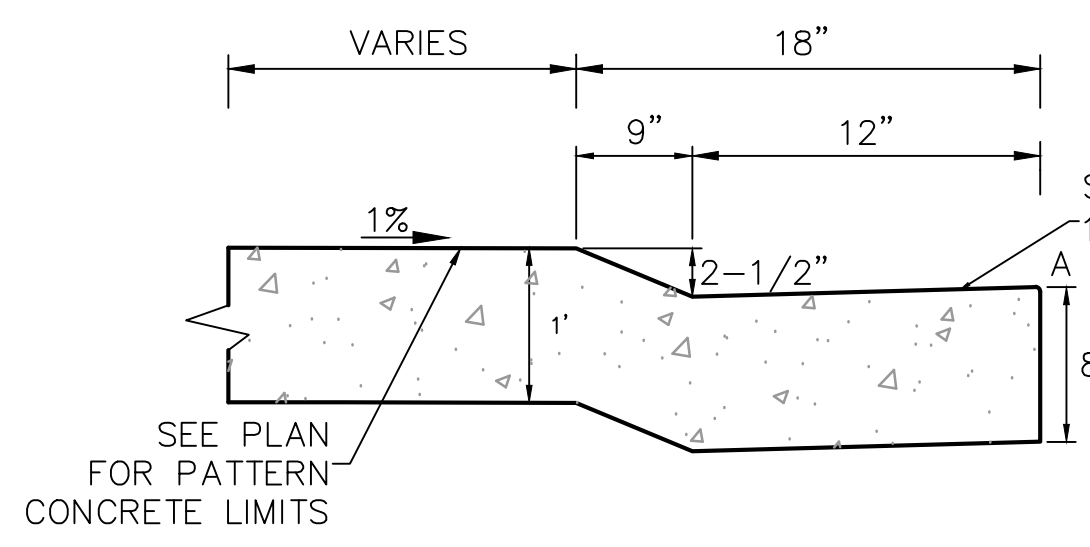
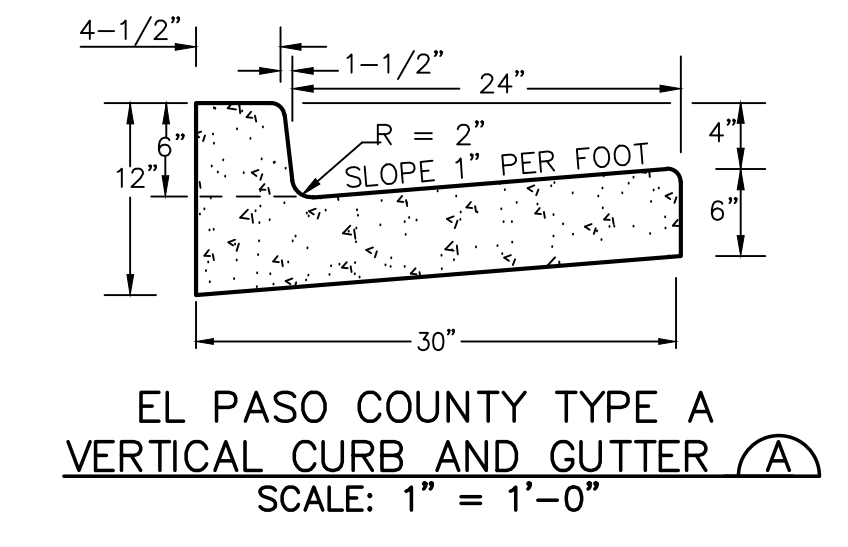
C:\Users\Owner\Dropbox\jpsprojects\040201\walden\dwg\civil\walden\_PRESERVE\_2\MONUMENT\_ACADEMY.INTL.dwg

# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION

PARCEL #61000-00-192 STALEY TRUST 20.78 AC.

PARCEL #61100-01-011 THOMAS, ANNETTE 5.3 AC.



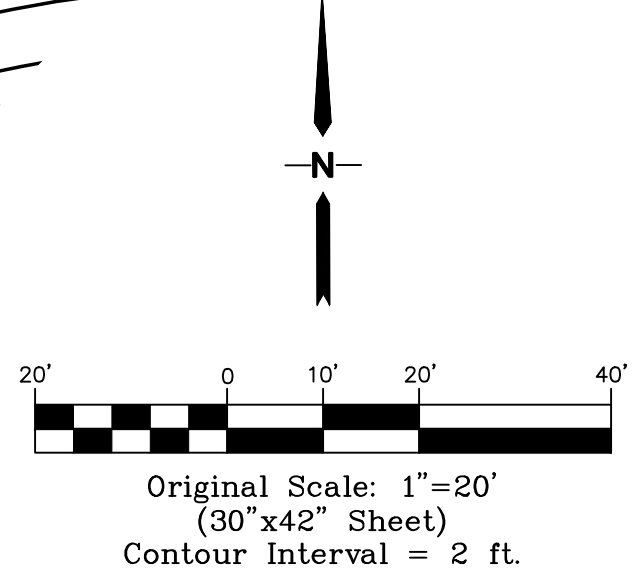
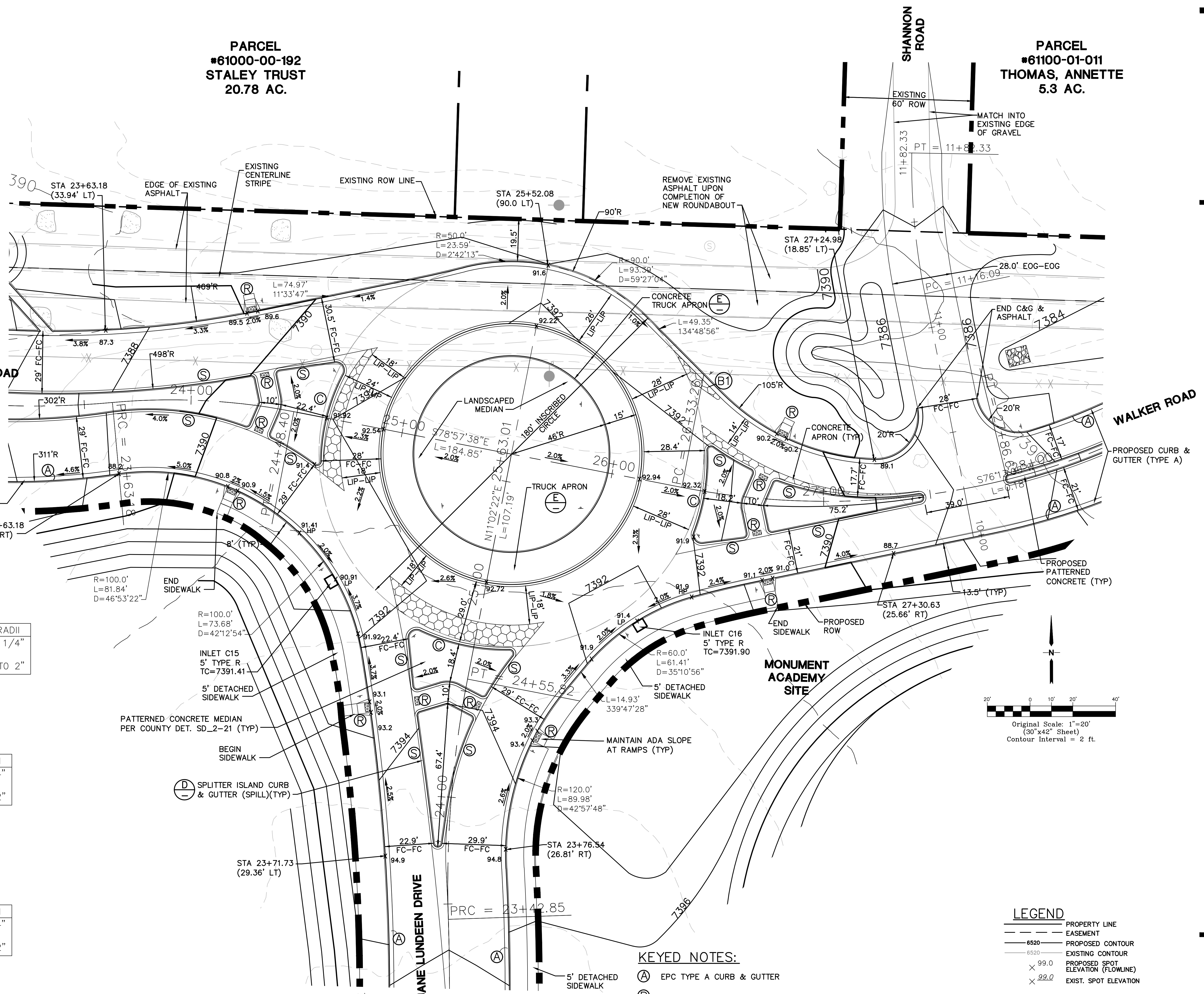
LENGTH OF RADII  
A = 1/8" TO 1/4"  
B = 1-1/2"  
C = 1-1/2" TO 2"

LENGTH OF RADII  
A = 1/8" TO 1/4"  
B = 1-1/2"  
C = 1-1/2" TO 2"

LENGTH OF RADII  
A = 1/8" TO 1/4"  
B = 1-1/2"  
C = 1-1/2" TO 2"

LENGTH OF RADII  
A = 1/8" TO 1/4"  
B = 1-1/2"  
C = 1-1/2" TO 2"

TYPICAL TRUCK APRON DETAIL (E)  
N.T.S.



**LEGEND**

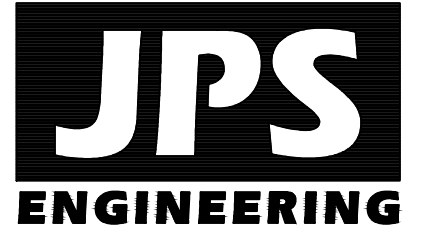
---	PROPERTY LINE
---	EASEMENT
---	PROPOSED CONTOUR
---	EXISTING CONTOUR
x 99.0	PROPOSED SPOT ELEVATION (FLOWLINE)
x 99.0	EXIST. SPOT ELEVATION

**KEYED NOTES:**

- (A) EPC TYPE A CURB & GUTTER
- (R) DENOTES PEDESTRIAN RAMP CONSTRUCTION PER EPC STDs
- (C) DENOTES SPLITTER ISLAND CURB/GUTTER (CATCH)
- (S) DENOTES SPLITTER ISLAND CURB/GUTTER (SPILL)
- (E) RAISED CONCRETE PLATFORM. SEE DETAIL B1 & B2; FOR PATTERN SEE COUNTY DETAIL SD\_2-21

**GENERAL ROUNDABOUT NOTES:**

1. REFER TO LSC ROUNDABOUT DESIGN REPORT FOR DESIGN PARAMETERS & ANALYSIS
2. CONTRACTOR SHALL COORDINATE & PROVIDE UTILITIES/CONDUITS AS REQUIRED PER LIGHTING & LANDSCAPING PLANS
3. CONCRETE PATTERN AND JOINT PLANS FOR THE ROUNDABOUTS AND MEDIANS SHALL BE PROVIDED PRIOR TO FORMING.



19 E. Willamette Ave.  
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FAX: 719-471-0766  
www.jpseng.com

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CRP ARCHITECTS AIA  
100 E. St. Vrain, Suite 300  
Colorado Springs, Colorado 80903

**WALKER ROAD & JANE LUNDEEN DRIVE ROUNDABOUT DETAIL**  
SCALE: 1"=20'

NO.	REVISION	BY	DATE
1	FOR PERMIT	JPS	4/01/19
2	COUNTY COMMENTS	JPS	4/29/19
3	COUNTY COMMENTS	JPS	8/09/19
4	COUNTY COMMENTS	JPS	4/08/20
5	COUNTY COMMENTS	JPS	5/05/20
6	COUNTY COMMENTS	JPS	5/15/20

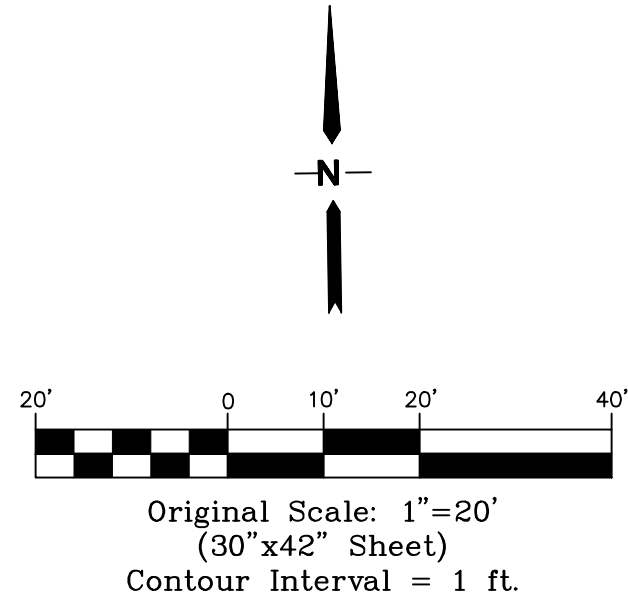
**NORTH**  
DATE: 6/26/19  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 5/15/20

PCD PROJECT NO. CDR-20-001

EPC 5/27/2020 RD.1.1

# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION

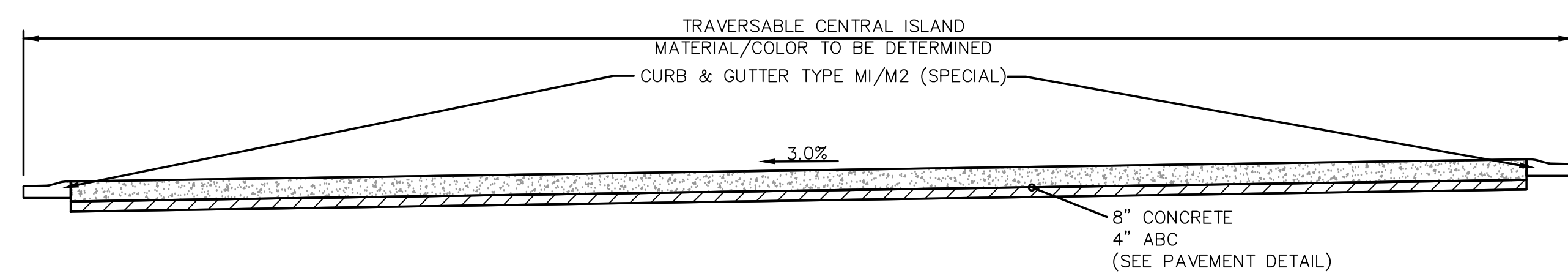


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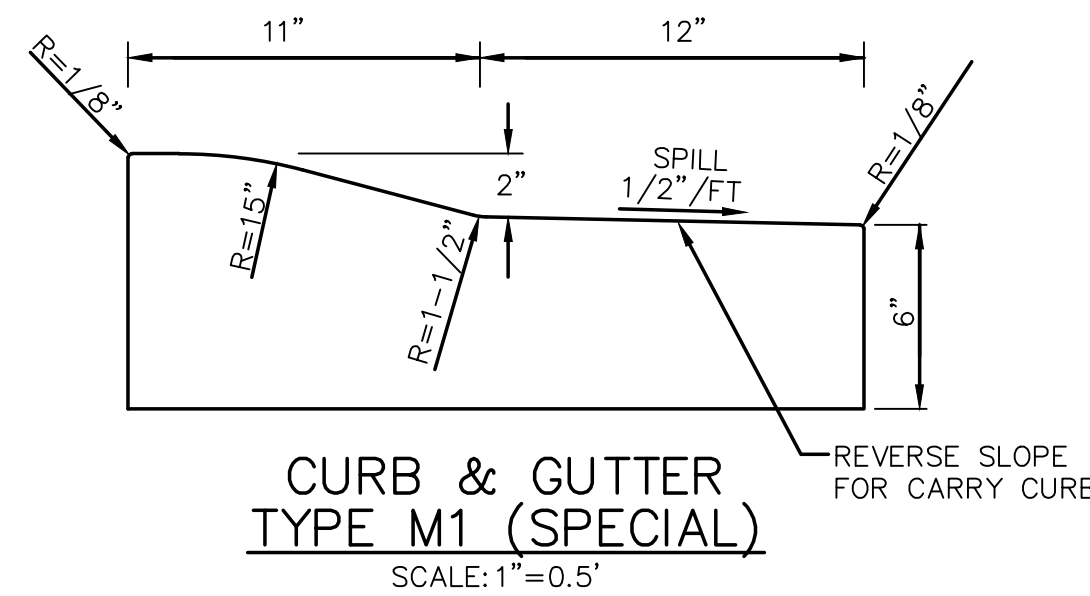
	PROPERTY LINE
	EASEMENT
	PROPOSED CONTOUR
	EXISTING CONTOUR
	PROPOSED SPOT ELEVATION (FLOWLINE)
	EXIST. SPOT ELEVATION

**NOTES:**

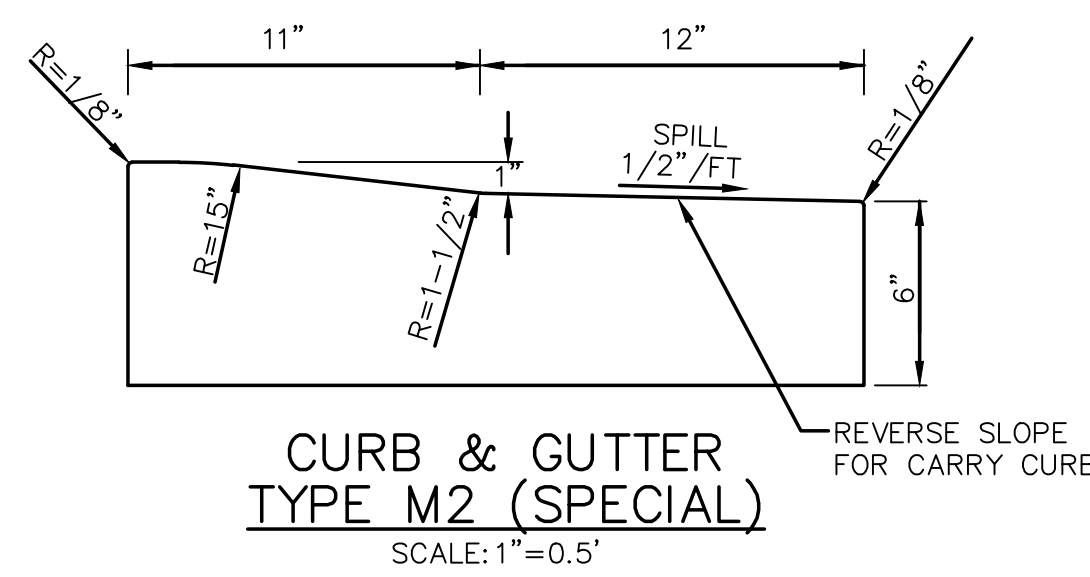
- (A) EPC TYPE A CURB & GUTTER
- (R) DENOTES PEDESTRIAN RAMP CONSTRUCTION
- (C) DENOTES SPLITTER ISLAND CURB/GUTTER (CATCH) REFER TO DETAIL B1, SH. RD1.1
- (S) DENOTES SPLITTER ISLAND CURB/GUTTER (SPILL) REFER TO DETAIL B2, SH. RD1.1
- RAISED CONCRETE PLATFORM. SEE DETAIL B1 & B2; FOR PATTERN SEE COUNTY DETAIL SD\_2-21



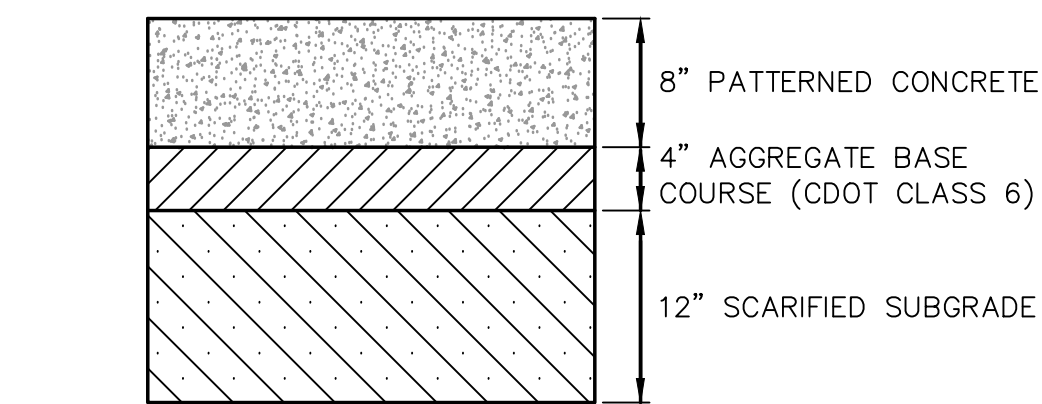
**MINI-ROUNDABOUT  
TYPICAL SECTION**  
SCALE: 1"=5'



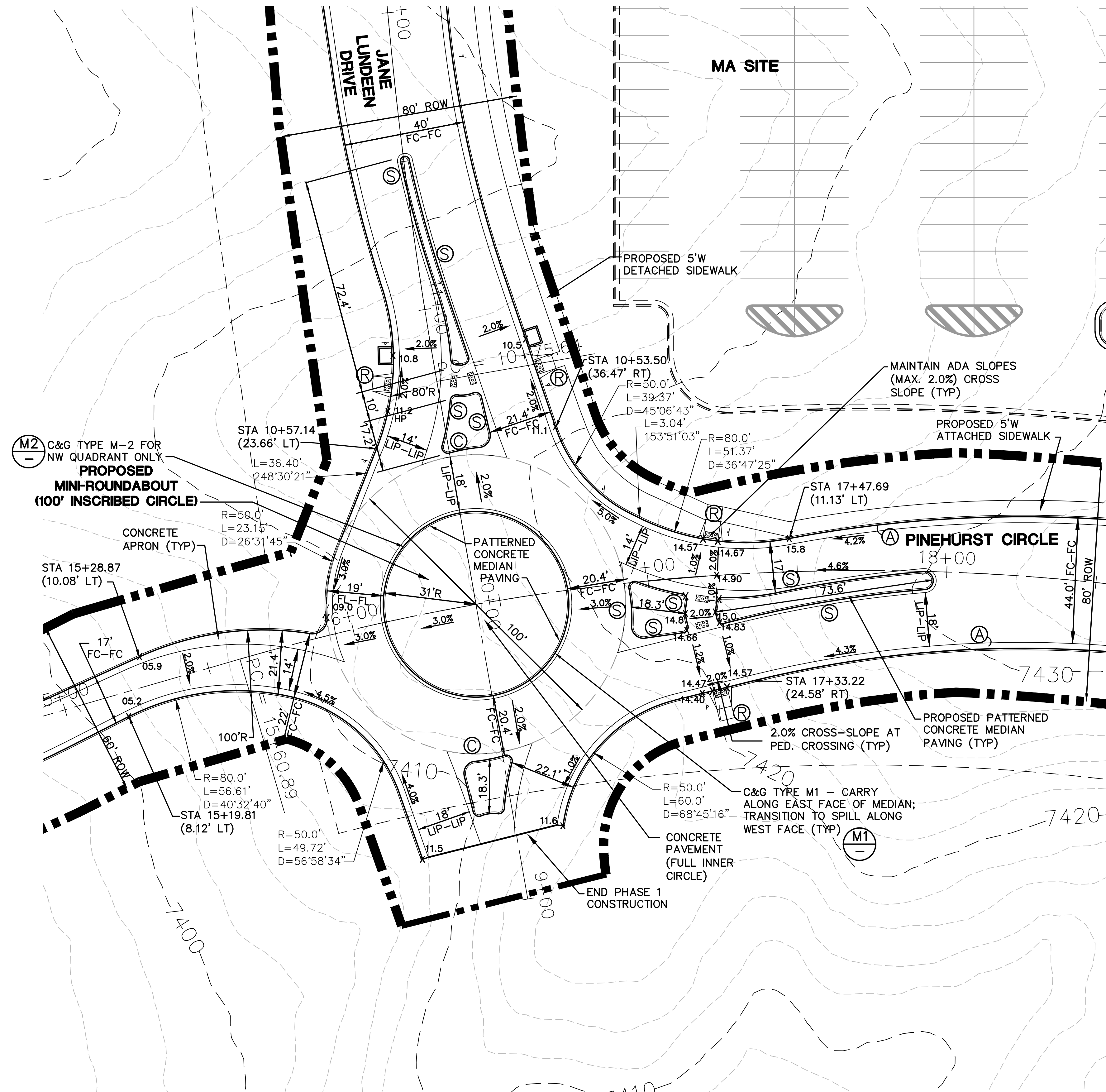
**CURB & GUTTER  
TYPE M1 (SPECIAL)**  
SCALE: 1"=0.5'



**CURB & GUTTER  
TYPE M2 (SPECIAL)**  
SCALE: 1"=0.5'



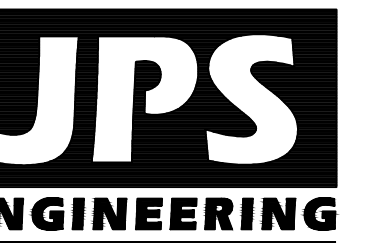
**CONCRETE PAVEMENT DETAIL**  
SCALE: 1"=1'



**GENERAL ROUNDABOUT NOTES:**

1. REFER TO LSC ROUNDABOUT DESIGN REPORT FOR DESIGN PARAMETERS & ANALYSIS
2. CONTRACTOR SHALL COORDINATE & PROVIDE UTILITIES/CONDUITS AS REQUIRED PER LIGHTING & LANDSCAPING PLANS
3. CONCRETE PATTERN AND JOINT PLANS FOR THE ROUNDABOUTS AND MEDIANS SHALL BE PROVIDED PRIOR TO FORMING.

NO.	REVISION	BY	DATE
1	FOR PERMIT	JPS	4/01/19
2	COUNTY COMMENTS	JPS	4/29/19
3	COUNTY COMMENTS	JPS	8/09/19
4	COUNTY COMMENTS	JPS	4/08/20
5	COUNTY COMMENTS	JPS	5/15/20



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100 E. St. Vrain, Suite 300  
Colorado Springs, Colorado 80903

**PINEHURST CIRCLE &  
JANE LUNDEEN DRIVE  
MINI-ROUNDABOUT DETAIL**

**NORTH** DATE: 3/15/19  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 5/15/20

EPC 5/27/2020 **RD.2.1**

**PCD PROJECT NO. CDR-20-001**



# MONUMENT ACADEMY HIGH SCHOOL

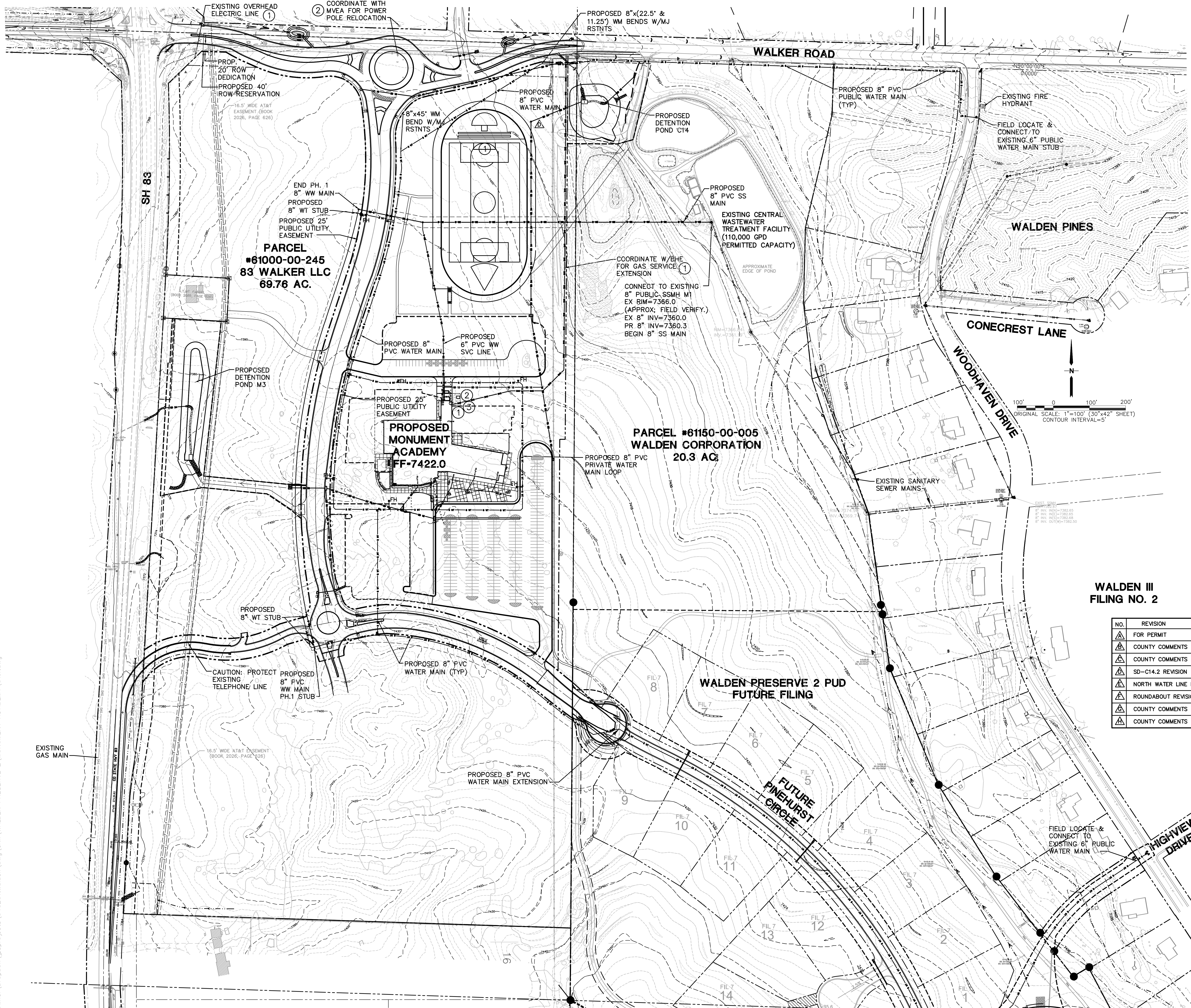
FOR CONSTRUCTION

**GENERAL UTILITY NOTES:**

1. ALL WATER AND SEWER WORK SHALL CONFORM TO WALDEN CORPORATION RULES & REGULATIONS.
2. ALL UTILITY SERVICE LINES (INCLUDING GAS, ELECTRICAL, PLUMBING, TELECOM, ETC.) MUST BE A MINIMUM OF 4" BELOW THE BOTTOM OF THE GRADE BEAM.

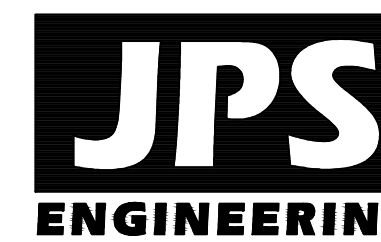
**KEYED NOTES:**

- ① COORDINATE WITH BLACK HILLS ENERGY FOR GAS SERVICE
- ② COORDINATE WITH MVEA FOR ELECTRIC SERVICE CONNECTION
- ③ COORDINATE W/CENTURY LINK FOR TELEPHONE SERVICE



WALDEN III  
FILING NO. 2

NO.	REVISION	BY	DATE
△	FOR PERMIT	JPS	4/01/19
△	COUNTY COMMENTS	JPS	4/29/19
△	COUNTY COMMENTS	JPS	8/15/19
△	SD-C14.2 REVISION	JPS	9/20/19
△	NORTH WATER LINE REVISION	JPS	9/30/19
△	ROUNDABOUT REVISIONS	JPS	10/22/19
△	COUNTY COMMENTS	JPS	4/08/20
△	COUNTY COMMENTS	JPS	5/15/20



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WALDEN NORTH UTILITY  
PLAN

**NORTH**  
DATE: 12/21/18  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 5/15/20

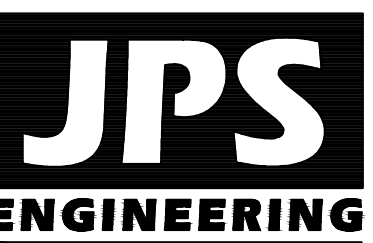
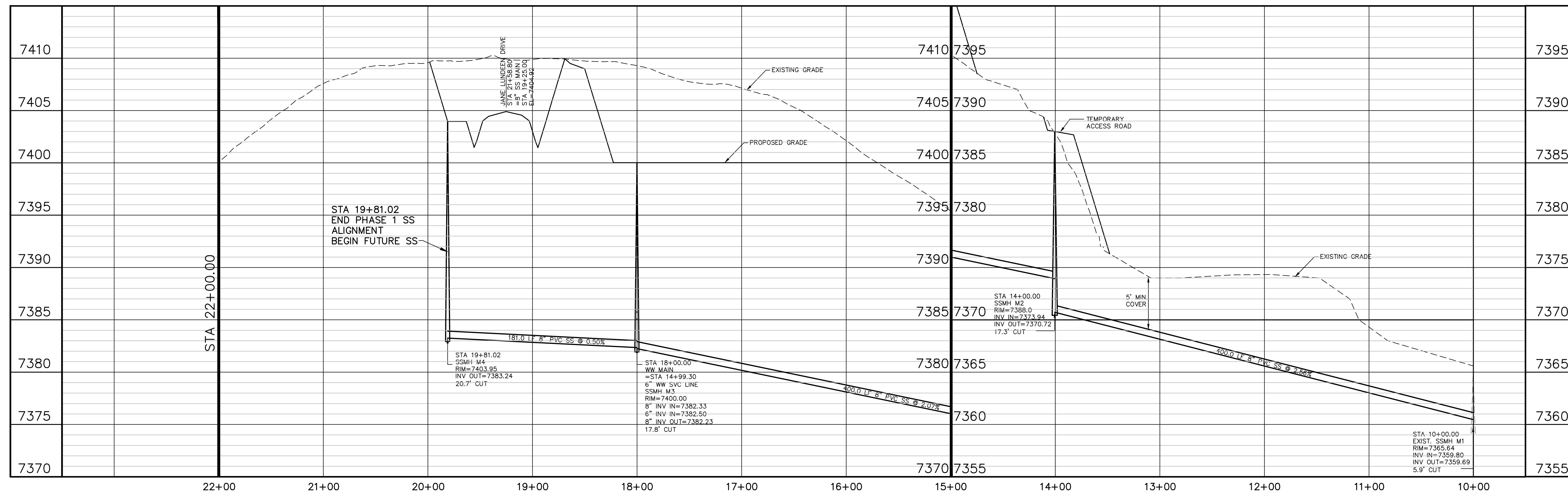
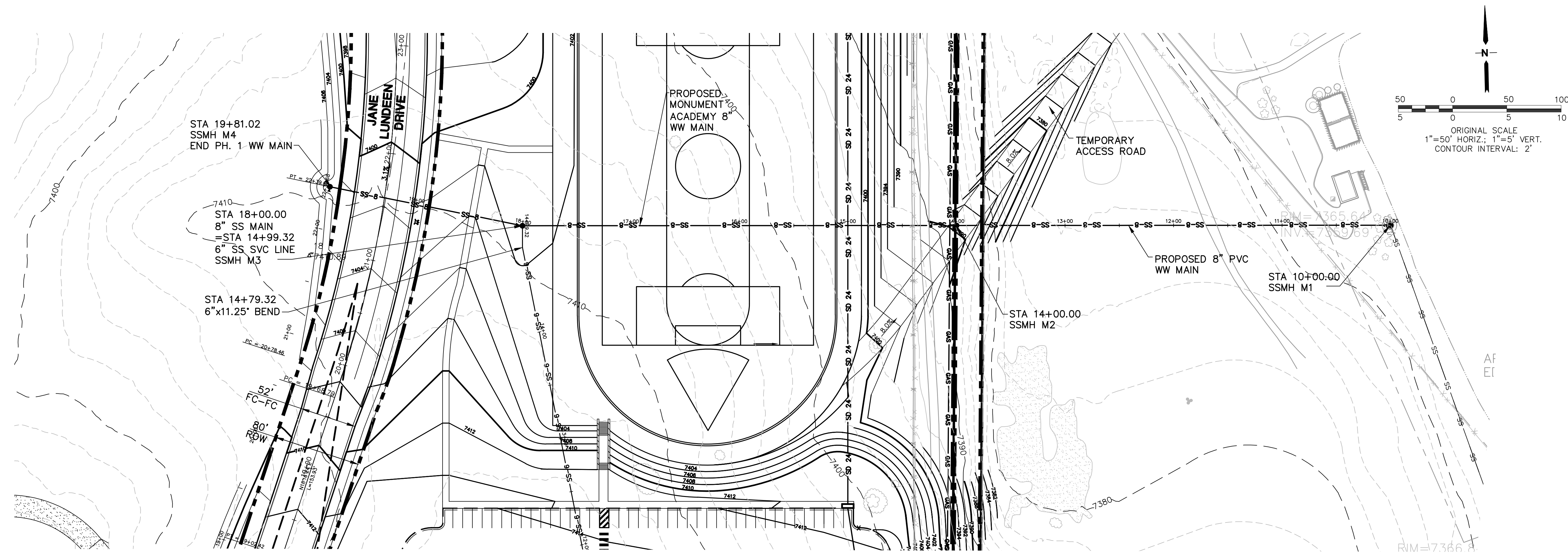
EPC 5/27/2020

U1.1

PCD PROJECT NO. CDR-20-001

# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION



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100 E. St. Vrain, Suite 300  
Colorado Springs, Colorado 80903

## WW PLAN & PROFILE

NO.	REVISION	BY	DATE
1	FOR PERMIT	JPS	4/01/19
2	COUNTY COMMENTS	JPS	4/29/19
3	COUNTY COMMENTS	JPS	8/09/19
4	COUNTY COMMENTS	JPS	4/08/20

**NORTH**  
DATE: 1/24/19  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 5/05/20

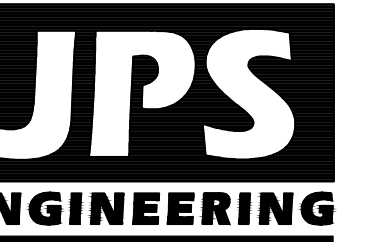
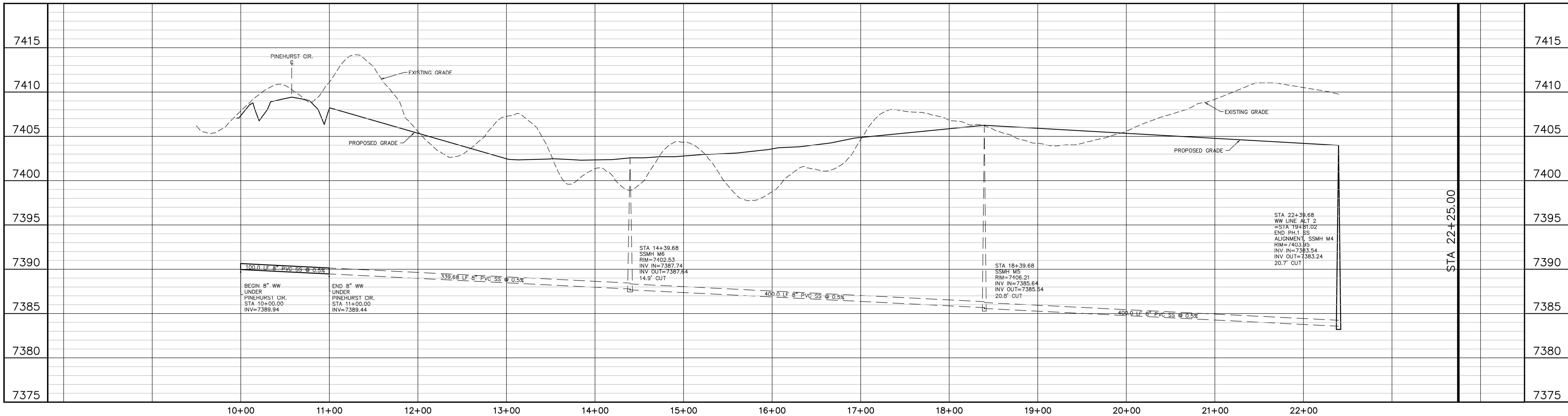
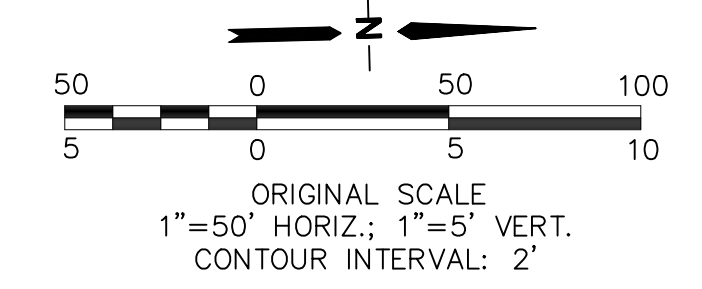
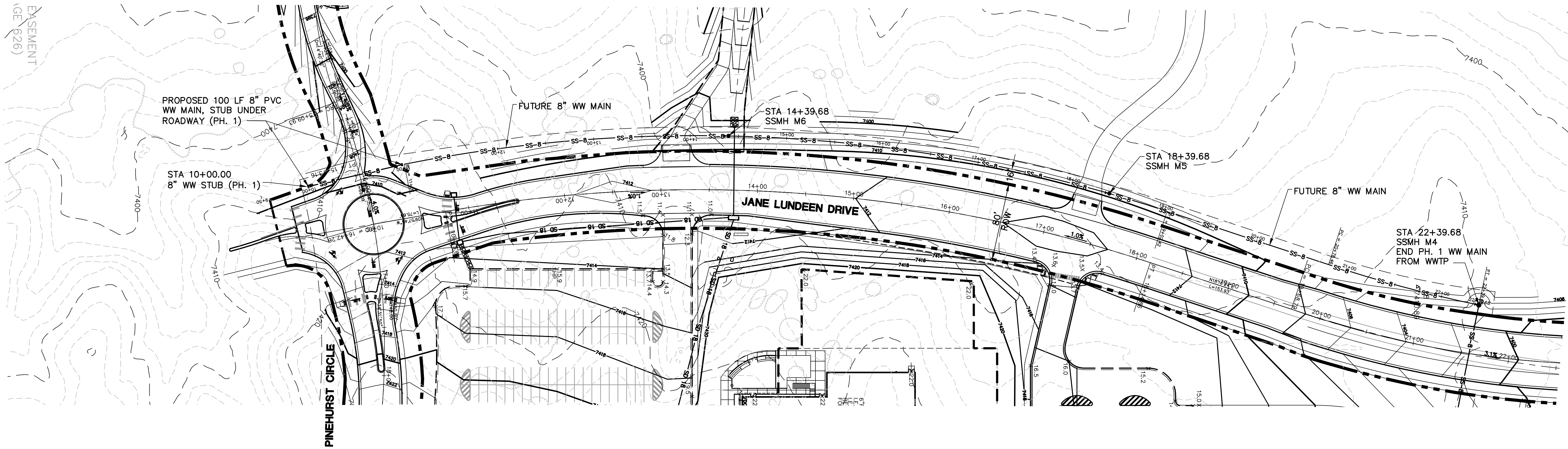
PCD PROJECT NO. CDR-20-001

EPC 5/27/2020

SS1

# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION



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Colorado Springs, Colorado 80903

## WW PLAN & PROFILE

NO.	REVISION	BY	DATE
1	FOR PERMIT	JPS	4/01/19
2	COUNTY COMMENTS	JPS	4/29/19
3	COUNTY COMMENTS	JPS	8/09/19
4	COUNTY COMMENTS	JPS	4/08/20

PCD PROJECT NO. CDR-20-001

NORTH  
DATE: 8/01/19  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 4/08/20

EPC 5/27/2020 SS2

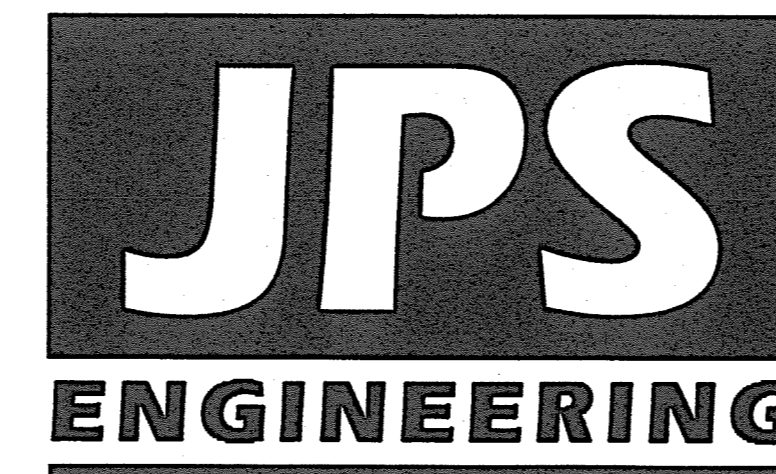
ENGINEERING RECORD  
DRAWINGS

MONUMENT ACADEMY  
Phase 1B Grading &  
Erosion Control Plans  
El Paso County, Colorado

PREPARED FOR:

Monument Academy  
1150 Village Ridge Point  
Monument, CO 80132

PREPARED BY:



PREPARED BY:

19 East Willamette Avenue  
Colorado Springs, Colorado 80903  
May, 2020

GEC SHEET INDEX

C1.0	GEC PLAN TITLE SHEET
C2.0	PHASE 1B SITE GRADING & EROSION CONTROL PLAN
C2.1	NORTH SITE GRADING & EROSION CONTROL PLAN
C2.1-HW	HIGHWAY 105 GRADING & EROSION CONTROL PLAN
C2.2	SOUTH SITE GRADING & EROSION CONTROL PLAN
C2.3	SOUTH WATER LINE (PINEHURST CIRCLE) GRADING & EROSION CONTROL PLAN
C2.4	SOUTH WATER LINE (PINEHURST CIRCLE) GRADING & EROSION CONTROL PLAN
C2.5	SOUTH WATER LINE (PINEHURST CIRCLE) GRADING & EROSION CONTROL PLAN
C3.1	DETENTION POND M3 PLAN & DETAILS
C3.2	DETENTION POND C14 PLAN & DETAILS
C3.3	WATER QUALITY POND DETAILS
C3.4	RAIN GARDEN DETAILS
C4.1A	SITE GRADING & EROSION CONTROL NOTES & DETAILS
C4.1B	EROSION CONTROL DETAILS
C6.1	STORM SEWER PROFILES

AGENCIES/CONTACTS

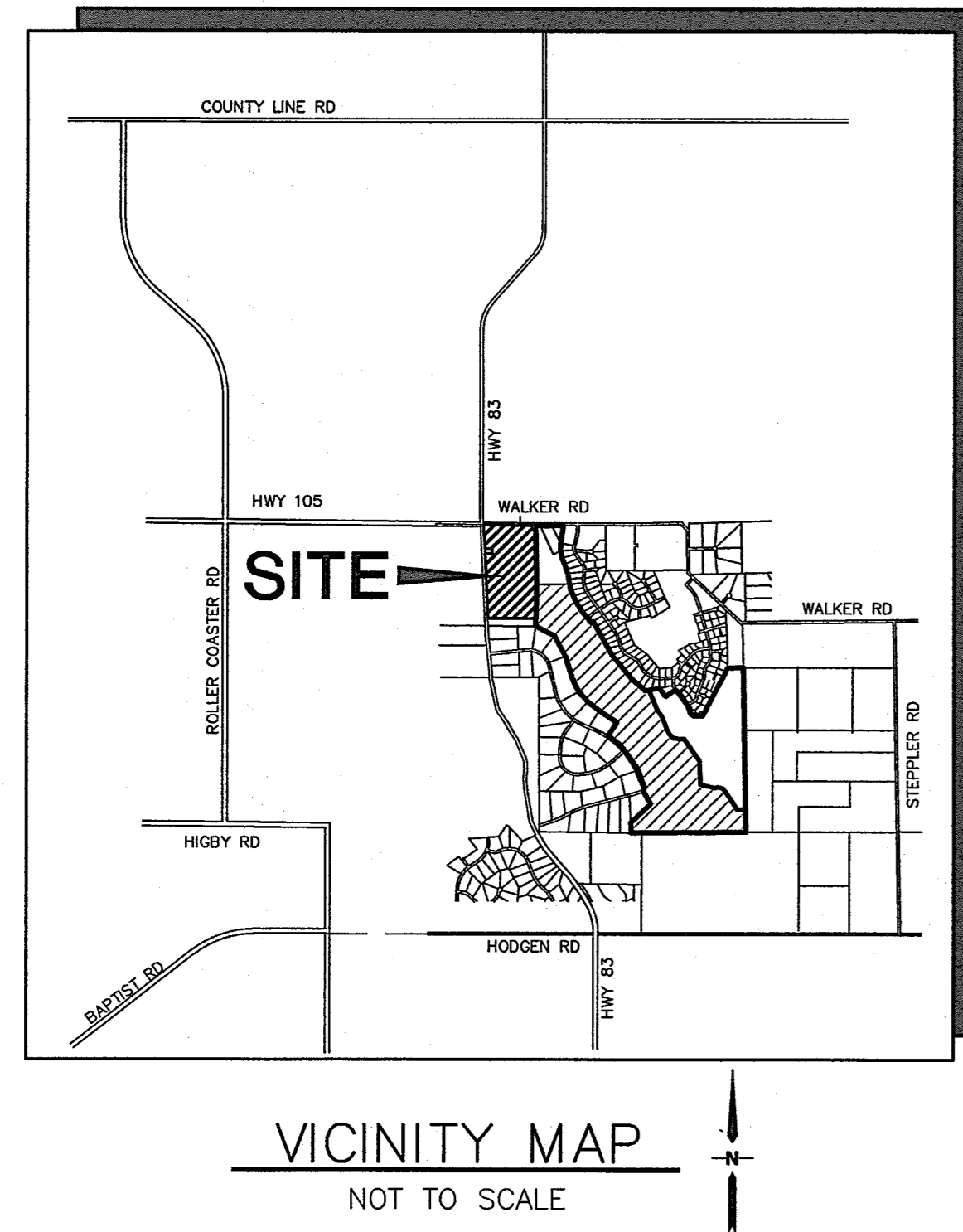
<b>OWNER:</b>	MONUMENT ACADEMY FOUNDATION 1150 VILLAGE RIDGE PT MONUMENT, CO 80132 MR. MARK McWILLIAMS (719) 481-1950	<b>CIVIL ENGINEER:</b>	JPS ENGINEERING, INC. 19 E. WILLAMETTE AVENUE COLORADO SPRINGS, CO 80903 MR. JOHN P. SCHWAB, P.E. (719) 477-9429	<b>WATER/WASTEWATER:</b>	WALDEN CORPORATION PO BOX 1870 MONUMENT, CO 80132 MR. MATT DUNSTON (719) 339-2410
<b>ARCHITECT:</b>	CRP ARCHITECTS 100 E. ST. VRAIN ST., STE. 300 COLORADO SPRINGS, CO 80903 MR. BRIAN RISLEY (719) 633-5901	<b>LOCAL ROADS &amp; DRAINAGE:</b>	EL PASO COUNTY PCD 2880 INTERNATIONAL CIRCLE COLORADO SPRINGS, CO 80910 MR. JEFF RICE, P.E. (719) 520-6300/7877	<b>GAS DEPARTMENT:</b>	BLACK HILLS ENERGY MR. SEBASTIAN SCHWENDER (719) 399-3176
<b>OWNER'S REP:</b>	ANSER ADVISORY 1703 SAND LILY DRIVE GOLDEN, CO 80401 MR. KURT CONNOLLY (303) 526-7928	<b>STATE HIGHWAY</b>	COLORADO DEPARTMENT OF TRANSPORTATION REGION 2 5615 WILLS BLVD. PUEBLO, CO 81008 MR. ARTHUR GONZALES (719) 546-5732	<b>ELECTRIC DEPARTMENT:</b>	MOUNTAIN VIEW ELECTRIC ASSOCIATION 11140 E. WOODMEN ROAD COLORADO SPRINGS, CO 80908 MR. DAVE WALDNER (719) 495-2283
<b>GENERAL CONTRACTOR:</b>	JHL CONSTRUCTORS, INC. 7076 SOUTH ALTON WAY, BLDG. H CENTENNIAL, CO 80112 MS. AIMEE CLODE (303) 741-6116	<b>FIRE DISTRICT</b>	TRI-LAKES MONUMENT FIRE PROTECTION DISTRICT 16055 OLD FOREST POINT, STE. 1003 MONUMENT, CO 80332 MR. JAMEY BUMGARDNER, FIRE MARSHAL (719) 484-0911	<b>TELEPHONE COMPANY:</b>	CENTURY LINK COMMUNICATIONS (LOCATORS) (800) 922-1987  A.T. & T. (LOCATORS) (719) 635-3674

CALL UTILITY NOTIFICATION  
CENTER OF COLORADO  
1-800-922-1987  
CALL 2-BUSINESS DAYS IN ADVANCE  
BEFORE YOU DIG, GRADE, OR EXCAVATE  
FOR THE MARKING OF UNDERGROUND  
MEMBER UTILITIES.

ENGINEERING RECORD DRAWINGS  
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL, THE EXACT LOCATION, TYPE OF COMPONENT, NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS. REFER TO ORIGINAL DRAWINGS FOR SIGNATURES AND SEALS.  
John P. Schwab Date: 2/8/23  
JOHN P. SCHWAB, PE# 29891  
FOR AND ON BEHALF OF JPS ENGINEERING, INC.

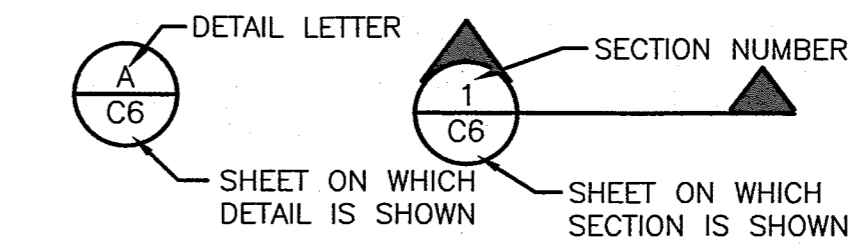
MONUMENT  
ACADEMY  
HIGH SCHOOL

FOR CONSTRUCTION



**LEGEND:**

---	NEW/EXISTING SECTION LINE - NEW/EXISTING
---	EASEMENT LINE - NEW/EXISTING
---	CONTOUR - NEW/EXISTING
---	PROPERTY LINE - NEW/EXISTING
---	FENCE - NEW/EXISTING
--- OHE ---	OVERHEAD ELECTRIC LINE W/ POWER POLE NEW/EXISTING
--- UGE ---	UNDERGROUND ELECTRIC LINE NEW/EXISTING
--- TEL ---	TELEPHONE - NEW/EXISTING
--- GAS ---	GAS - NEW/EXISTING
--- WT ---	WATER - NEW/EXISTING
X 55.5 TW=53.0 BW=50.0	PROPOSED SPOT ELEVATION/FLOWLINE TOP OF WALL ELEVATION BOTTOM OF WALL ELEVATION (FINISHED GRADE AT FACE OF WALL)



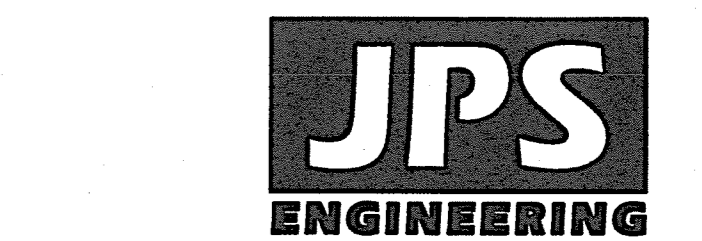
**BENCHMARK:**  
BENCHMARK 4 BB RESET 1984 NAVD 88 DATUM ELEV.=7570.80  
FOUND BRASS CAP IN CONCRETE INT HWY 83 & HODGEN RD.

**BASIS OF BEARING:**  
COMMENCING AT THE SOUTHEAST CORNER OF SAID E1/2 NW1/4, SAID POINT ALSO BEING THE SOUTHWEST CORNER OF THE NORTHEAST ONE-QUARTER (NE1/4) OF SAID SECTION 15, AS MONUMENTED BY A 1/2" REBAR (NO CAP), FROM WHICH THE SOUTHWEST CORNER OF THE NORTHWEST ONE-QUARTER (NW1/4) OF SAID SECTION 15, AS MONUMENTED BY A REBAR AND 3-1/4" ALUMINUM CAP STAMPED "BERGE-BREWER LS 9646" BEARS N88°08'01"W, A DISTANCE OF 2636.22 FEET AND IS THE BASIS OF BEARINGS USED HEREIN.

**ENGINEER:**  
**DESIGN ENGINEER'S STATEMENT:**  
THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN WAS PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COLORADO GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS CAUSED BY NEGLIGENCE ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.  
John P. Schwab, P.E. #29891 DATE 5/15/20

**OWNER/DEVELOPER'S STATEMENT:**  
I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION PLAN.  
Matthew W. Dunston DATE 5/15/20  
WALDEN CORPORATION & WALDEN HOLDINGS 1, LLC  
BOX 1870  
MONUMENT, CO 80130

**EL PASO COUNTY (STANDALONE GEC PLAN):**  
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 VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.  
IN ACCORDANCE WITH EGM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO 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.  
Approved By: Elizabeth Nijkamp DATE: 05/27/2020  
JENNIFER IRVINE, P.E., COUNTY ENGINEER / EGM ADMINISTRATOR  
El Paso County Planning & Community Development



19 E. Willamette Ave.  
Colorado Springs, CO  
80903

PH: 719-477-9429  
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CRP ARCHITECTS AIA  
100 E. St. Vrain, Suite 300  
Colorado Springs, Colorado 80903

GEC PLAN TITLE SHEET

NORTH DATE: 8/01/19  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 5/15/20

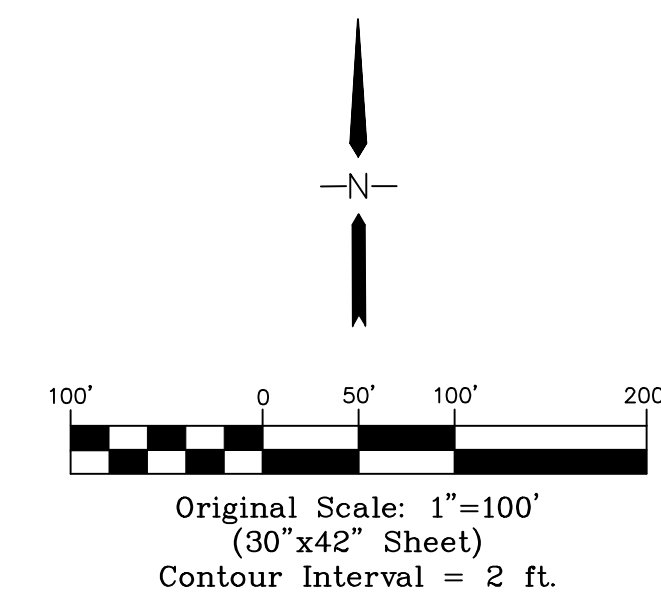
PCD PROJECT NO. CDR-20-001  
PCD PROJECT NO. PPR-19-009

C1.0

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# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION



NOTE: EXISTING SITE VEGETATION CONSISTS OF NATIVE MEADOW GRASSES WITH A DENSITY OF APPROXIMATELY 70% BASED ON VISUAL OBSERVATION.  
There are no existing streams, wetlands or other surface waters within 50 feet of the construction limits.

### CONTROL MEASURE/BMP PHASING PLAN:

#### INITIAL CONTROL MEASURES:

- VTC AT SITE ACCESS
- SILT FENCE ALONG DOWNSTREAM GRADING LIMITS

#### INTERIM CONTROL MEASURES:

- STRAW BALES/SCL CHECK DAMS

#### FINAL CONTROL MEASURES:

- RIPRAP APRONS
- PERMANENT DETENTION AND/OR WATER QUALITY FACILITIES
- SEEDING AND LANDSCAPING

NOTE: NO DEDICATED ASPHALT/CONCRETE BATCH PLANTS ARE PROPOSED

### NON-STRUCTURAL CONTROL MEASURES:

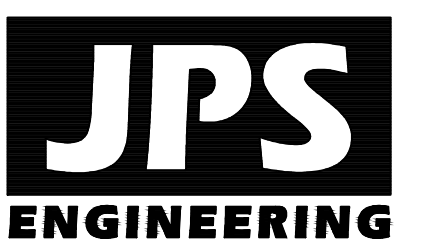
#### LOCATIONS:

- SCHOOL SITE
- ACCESS ROADS
- STAGING AREAS

#### CONTROL MEASURES:

- PROPER HOUSEKEEPING MEASURES
- PROPER SPILL CONTAINMENT PROCEDURES

NOTE: CONTRACTOR SHALL PROVIDE APPROPRIATE METHOD OF PROTECTION OF AREAS OUTSIDE OF THIS SITE CONSTRUCTION BOUNDARY (SUCH AS CONSTRUCTION FENCE, FLAGGING, BARRICADES, ETC.)



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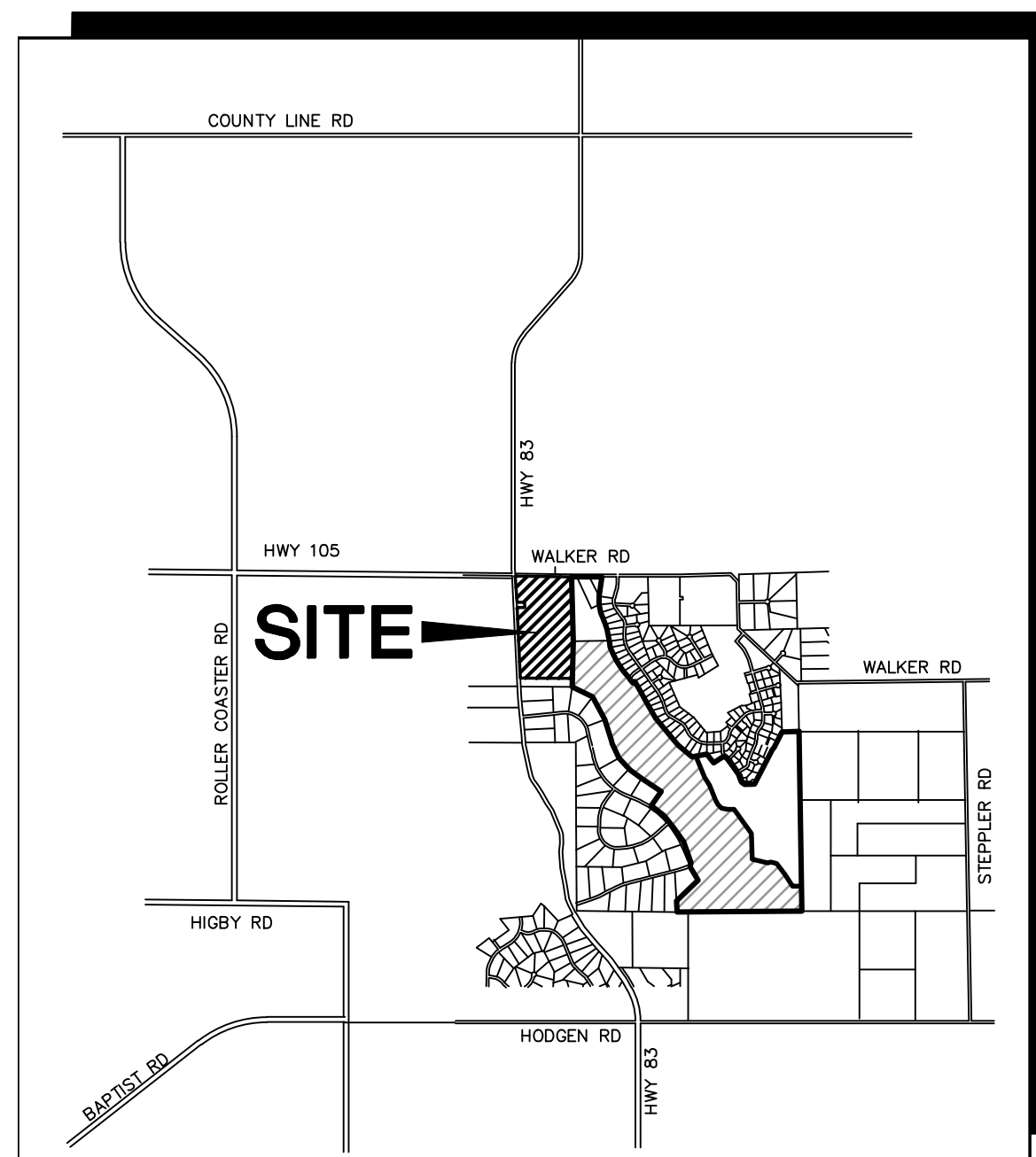
CRP ARCHITECTS AIA  
100 E. St. Vrain, Suite 300  
Colorado Springs, Colorado 80903

### PH 1B SITE GRADING & EROSION CONTROL PLAN

SCALE: 1"=100'

DATE: 12/20/18  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 5/15/20

C2.0



VICINITY MAP  
NOT TO SCALE



TYPICAL SWALE SECTION  
NTS

### KEYED NOTES:

- CONTRACTOR MAY WASTE EXCESS CUT MATERIAL OR BORROW SUITABLE FILL MATERIAL FROM THIS AREA - MAINTAIN POSITIVE DRAINAGE & MATCH INTO EXISTING GRADES WITH 3:1 MAX. SLOPE.
- PREPARE AND COMPACT BUILDING FOUNDATION & SLABS PER PROJECT GEOTECHNICAL REPORT
- HEAVY DUTY PAVEMENT: (FUTURE)  
5" HBP OVER 5" ABC (REFER TO GEOTECH REPORT)
- LIGHT DUTY PAVEMENT: (FUTURE)  
4" HBP OVER 5" ABC (REFER TO GEOTECH REPORT)
- STAGING & BUILDING MATERIAL STORAGE AREA
- TOPSOIL STOCKPILE AREA

### ESTIMATED EARTHWORK QUANTITY:

UNCLASSIFIED EXCAVATION (TOTAL CUT) = 102,772 CY  
\* EMBANKMENT FILL = 101,244 CY  
NET (CUT) = 1,528 CY  
\* (ASSUMES 15% COMPACTION FACTOR)

NOTE: THIS ESTIMATE IS PROVIDED FOR INFORMATION ONLY, REPRESENTING THE CALCULATED BULK EARTHWORK VOLUME TO FINISHED GRADE, EXCLUDING ANY ADJUSTMENT FOR PAVEMENT DEPTHS, ETC. CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF EARTHWORK QUANTITIES AS BASIS FOR BID PRICING AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

### LEGEND

- PROPERTY LINE
- EASEMENT
- 6520 PROPOSED CONTOUR
- 6520 EXISTING CONTOUR
- 99.0 PROPOSED SPOT ELEVATION (FLOWLINE)
- 99.0 EXIST. SPOT ELEVATION
- EXISTING VEGETATION
- CUT/FILL DEMARCATION LINE
- LIMITS OF CONSTRUCTION/DISTURBANCE
- SILT FENCE
- RIPRAP PAD
- VEHICLE TRACKING PAD
- SEED & MULCH
- INLET PROTECTION
- SEDIMENT BASIN
- GRASS BUFFER
- EXTENDED DETENTION BASIN
- CONCRETE WASHOUT AREA
- RAIN GARDEN
- STABILIZED STAGING AREA

NOTES:  
1. ALL EROSION CONTROL MEASURES SHALL CONFORM TO CITY OF COLORADO SPRINGS DRAINAGE CRITERIA MANUAL, VOLUME 2 REQUIREMENTS.  
2. CONTRACTOR SHALL OBTAIN A "WORK IN THE ROW PERMIT" FOR ALL WORK IN COUNTY RIGHT-OF-WAY.

BENCHMARK:  
BENCHMARK 4 BB RESET 1984 NAVD 88 DATUM  
ELEV.=7570.80 FOUND BRASS CAP IN CONCRETE  
INT HWY 83 & HODGEN RD.

NO.	REVISION	BY	DATE
1	COUNTY COMMENTS	JPS	6/20/19
2	COUNTY COMMENTS	JPS	8/15/19
3	ROUNDABOUT REVISION	JPS	10/09/19
4	PH. 1B GEC	JPS	3/04/20
5	COUNTY COMMENTS	JPS	4/08/20
6	COUNTY COMMENTS	JPS	5/05/20
7	COUNTY COMMENTS	JPS	5/15/20

PARCEL #61000-00-481  
KANG, DONG WON  
30.0 AC

PARCEL #61000-00-192  
STALEY TRUST  
20.78 AC.

PARCEL #61100-01-011  
THOMAS, ANNETTE  
5.3 AC.

PARCEL #61000-00-513  
PAULSON, KAREN  
39.85 AC.

AT&T PARCEL

PARCEL #61150-00-005  
WALDEN CORPORATION  
20.28 AC.

NOTE: PHASE 1 SITEWORK INCLUDES ALL SITE GRADING AND STORM DRAINAGE FACILITIES

ULTIMATE MA PARCEL BOUNDARY (LIMITS OF JHL CONTRACT SITEWORK)

PARCEL #61230-01-023  
WALDEN HOLDINGS I, LLC  
134.05 AC.

PARCEL #61000-00-245  
WALDEN CORPORATION  
64.1 AC.

PARCEL #61000-00-489  
RAEL, STEVE  
40.2 AC.

GRADING & EROSION CONTROL BY MA INFRASTRUCTURE, LLC

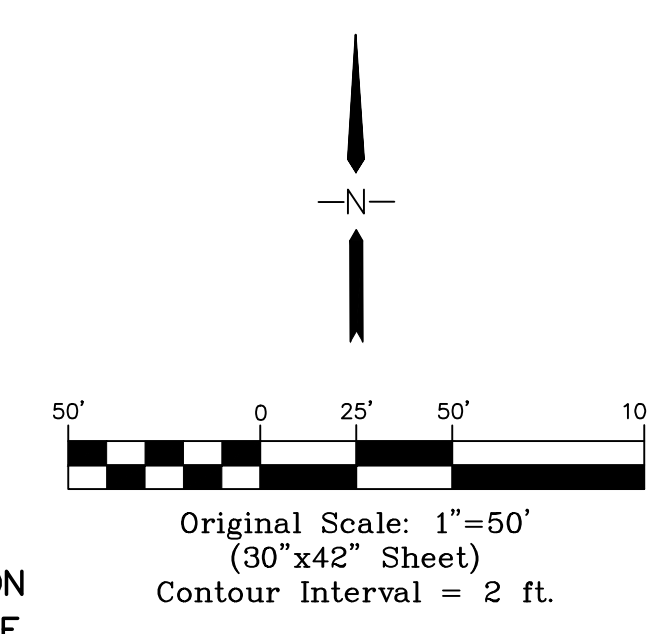
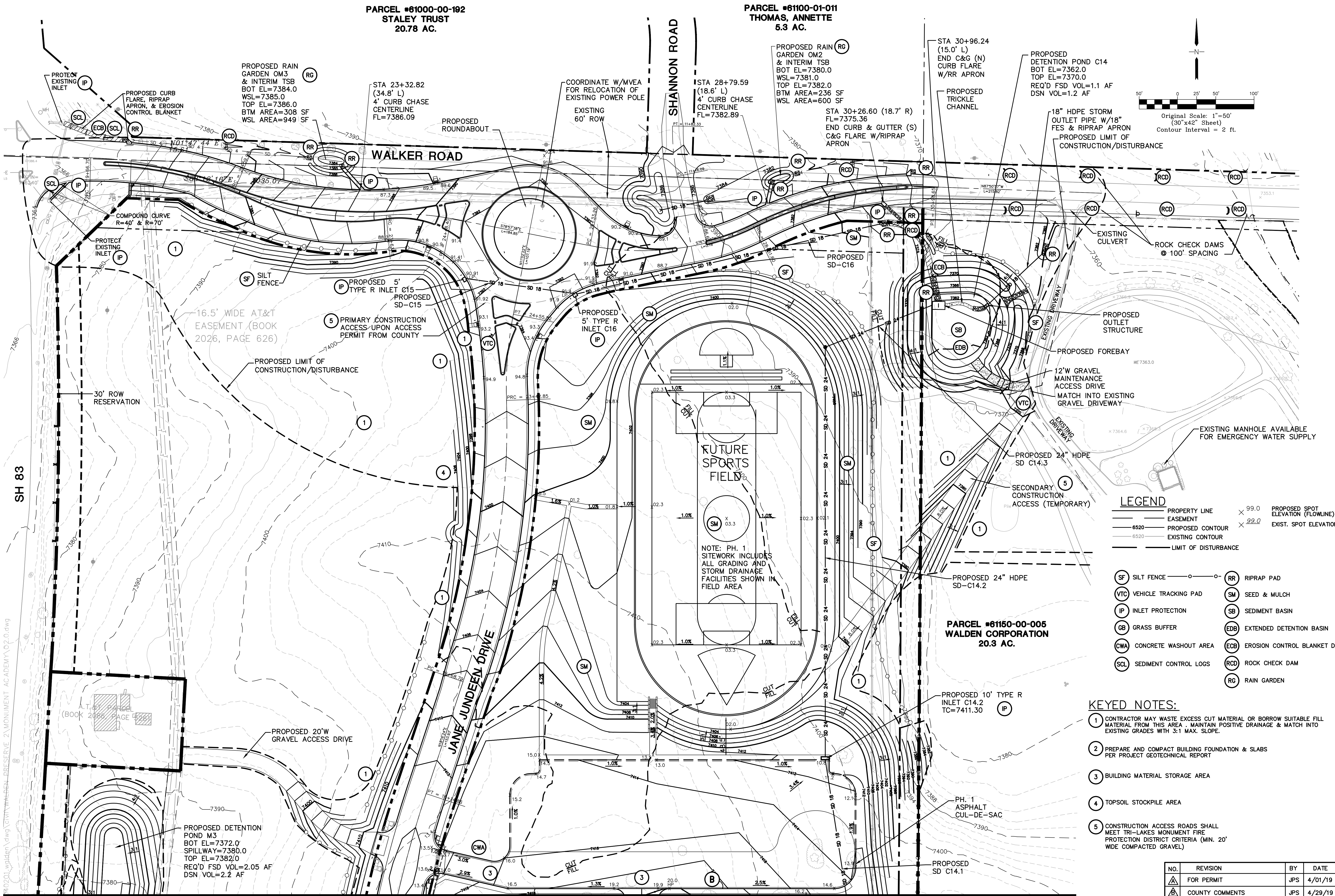
VACANT UNPLATTED ZONED RR-5

PARCEL #61000-00-112  
AMANN, RANDY  
5.95 AC.

NOTE: CONTRACTOR SHALL IDENTIFY CONSTRUCTION TRAILER & STAGING AREA LOCATIONS ON FIELD SET OF GEC/SWMP PLANS

# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION



**LEGEND**

—	PROPERTY LINE	X 99.0	PROPOSED SPOT ELEVATION (FLOWLINE)
- - -	EASEMENT	X 99.0	EXIST. SPOT ELEVATION
—	PROPOSED CONTOUR		
- - -	EXISTING CONTOUR		
---	LIMIT OF DISTURBANCE		

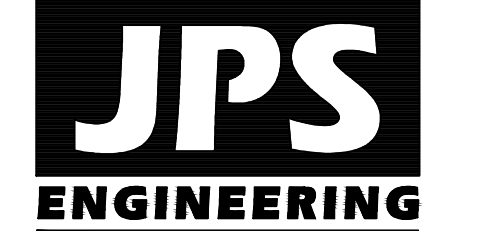
(SF)	SILT FENCE	(RR)	RIPRAP PAD
(VTC)	VEHICLE TRACKING PAD	(SM)	SEED & MULCH
(IP)	INLET PROTECTION	(SB)	SEDIMENT BASIN
(GB)	GRASS BUFFER	(EDB)	EXTENDED DETENTION BASIN
(CWA)	CONCRETE WASHOUT AREA	(ECB)	EROSION CONTROL BLANKET DITCH LINING
(SCL)	SEDIMENT CONTROL LOGS	(RCD)	ROCK CHECK DAM
		(RG)	RAIN GARDEN

- KEYED NOTES:**
- CONTRACTOR MAY WASTE EXCESS CUT MATERIAL OR BORROW SUITABLE FILL MATERIAL FROM THIS AREA - MAINTAIN POSITIVE DRAINAGE & MATCH INTO EXISTING GRADES WITH 3:1 MAX. SLOPE.
  - PREPARE AND COMPACT BUILDING FOUNDATION & SLABS PER PROJECT GEOTECHNICAL REPORT
  - BUILDING MATERIAL STORAGE AREA
  - TOPSOIL STOCKPILE AREA
  - CONSTRUCTION ACCESS ROADS SHALL MEET TRI-LAKES MONUMENT FIRE PROTECTION DISTRICT CRITERIA (MIN. 20' WIDE COMPACTED GRAVEL)

NO.	REVISION	BY	DATE
1	FOR PERMIT	JPS	4/01/19
2	COUNTY COMMENTS	JPS	4/29/19
3	COUNTY COMMENTS	JPS	6/20/19
4	COUNTY COMMENTS	JPS	7/23/19
5	ROUNDBOULT REVISION	JPS	12/19/19
6	PH. 1B GEC PLANS	JPS	3/04/20
7	COUNTY COMMENTS	JPS	4/08/20
8	COUNTY COMMENTS	JPS	5/15/20

BENCHMARK:  
BENCHMARK 4 BB RESET 1984  
NAVD 88 DATUM ELEV.=7570.80  
FOUND BRASS CAP IN CONCRETE  
INT HWY 83 & HODGEN RD.

MATCH LINE  
SEE SHT. C2.2



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**NORTH SITE GRADING & EROSION CONTROL PLAN**

SCALE : 1"=50'

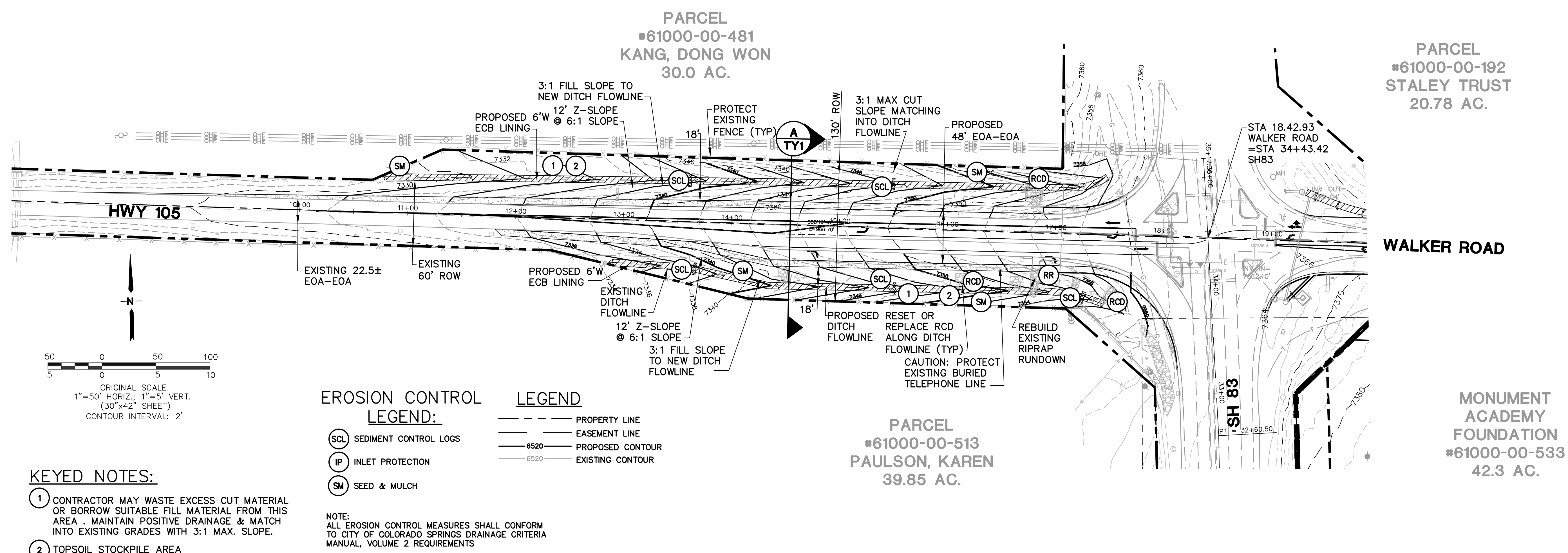
NORTH	DATE:	12/20/18
	DRAWN BY:	BJJ
	CHECKED BY:	JPS
	REVISED:	5/15/20

PCD PROJECT NO. CDR-20-001

EPC 5/27/2020 **C2.1**

# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION



### KEYED NOTES:

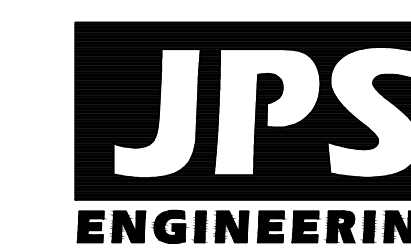
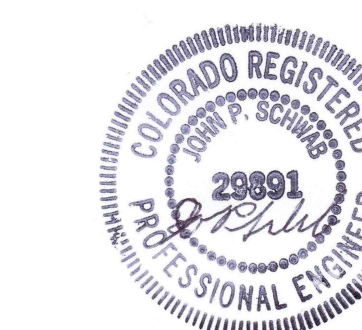
- 1 CONTRACTOR MAY WASTE EXCESS CUT MATERIAL OR BORROW SUITABLE FILL MATERIAL FROM THIS AREA. MAINTAIN POSITIVE DRAINAGE & MATCH INTO EXISTING GRADES WITH 3:1 MAX. SLOPE.
- 2 TOPSOIL STOCKPILE AREA

### EROSION CONTROL LEGEND:

- (SCL) SEDIMENT CONTROL LOGS
- (IP) INLET PROTECTION
- (SM) SEED & MULCH

- ### LEGEND
- PROPERTY LINE
  - EASEMENT LINE
  - 6520 PROPOSED CONTOUR
  - 6520 EXISTING CONTOUR

NOTE:  
ALL EROSION CONTROL MEASURES SHALL CONFORM TO CITY OF COLORADO SPRINGS DRAINAGE CRITERIA MANUAL, VOLUME 2 REQUIREMENTS



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Colorado Springs, Colorado 80903

NO.	REVISION	BY	DATE
△	FOR PERMIT	JPS	4/17/19
△	COUNTY COMMENTS	JPS	4/29/19
△	COUNTY COMMENTS	JPS	6/20/19
△	COUNTY COMMENTS	JPS	7/11/19
△	COUNTY COMMENTS	JPS	4/08/20
△	COUNTY COMMENTS	JPS	5/05/20

### HIGHWAY 105 GRADING & EROSION CONTROL PLAN

SCALE : AS SHOWN

**NORTH**  
DATE: 4/03/20  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 5/05/20

PCD PROJECT NO. CDR-20-001

EPC 5/27/2020

C2.1-HW

**EROSION CONTROL LEGEND:**

- |                                  |          |                  |
|----------------------------------|----------|------------------|
| <b>SCL</b> SEDIMENT CONTROL LOGS | —        | PROPERTY LINE    |
| <b>RCD</b> ROCK CHECK DAM        | —        | EASEMENT LINE    |
| <b>SM</b> SEED & MULCH           | — 6520 — | PROPOSED CONTOUR |
| <b>SF</b> SILT FENCE             |          | EXISTING CONTOUR |
| <b>RR</b> RIPRAP                 |          |                  |
- NOTE:  
ALL EROSION CONTROL MEASURES SHALL CONFORM TO CITY OF COLORADO SPRINGS DRAINAGE CRITERIA MANUAL, VOLUME 2 REQUIREMENTS

\* EXCAVATE FROM GRADING AREA ON KANG PARCEL AS REQUIRED TO GENERATE SUITABLE FILL MATERIAL FOR ROADWAY WIDENING. CONFORM SUITABLE FILL MATERIAL W/GEOTECH. PROVIDE EXCAVATED PAD SITE WITH 2%-5% FINISHED GRADE & 3:1 MAX. SLOPES BLENDING TO SURROUNDING CONTOURS. RE-SEED ALL DISTURBED AREAS.

EXPANDED LIMITS OF DISTURBANCE (APPROX, FIELD VERIFY)

PROPOSED SILT FENCE ALONG DOWNSTREAM EDGE OF DISTURBED AREA (TYP)

\* EXCAVATION AREA \*

PARCEL #61000-00-481 KANG, DONG WON 30.0 AC.

3:1 FILL SLOPE MATCHING INTO NEW DITCH FLOWLINE

3:1 MAX CUT SLOPE MATCHING INTO DITCH FLOWLINE

PROPOSED DITCH FLOWLINE

PROTECT EXISTING FENCE (TYP)

PROPOSED 6'W ECB LINING

PROPOSED 48' EOA-EOA

HWY 105

EXISTING 60' ROW

EXISTING 22.5± EOA-EOA

PROPOSED 6'W ECB LINING

EXISTING DITCH FLOWLINE 12' Z-SLOPE @ 6:1 SLOPE

PROPOSED SILT FENCE ALONG DOWNSTREAM EDGE OF DISTURBED AREA (TYP)

CAUTION: PROTECT EXISTING BURIED TELE. LINE

3:1 FILL SLOPE MATCHING INTO NEW DITCH FLOWLINE

PROPOSED RESET OR REPLACE RCD ALONG DITCH FLOWLINE (TYP)

CAUTION: PROTECT EXISTING BURIED TELEPHONE LINE

REBUILD EXISTING RIPRAP RUNDOWN

STA 18.42.93 WALKER ROAD = STA 34+43.42 SH83

**KEYED NOTES:**

- ① CONTRACTOR MAY WASTE EXCESS CUT MATERIAL OR BORROW SUITABLE FILL MATERIAL FROM THIS AREA. MAINTAIN POSITIVE DRAINAGE & MATCH INTO EXISTING GRADES WITH 3:1 MAX. SLOPE.
- ② TOPSOIL STOCKPILE AREA

\* EXCAVATE FROM GRADING AREA ON PAULSON PARCEL AS REQUIRED TO GENERATE SUITABLE FILL MATERIAL FOR ROADWAY WIDENING. CONFORM SUITABLE FILL MATERIAL W/GEOTECH. PROVIDE EXCAVATED PAD SITE WITH 2%-5% FINISHED GRADE & 3:1 MAX. SLOPES BLENDING TO SURROUNDING CONTOURS. RE-SEED ALL DISTURBED AREAS.

\* EXCAVATION AREA \*

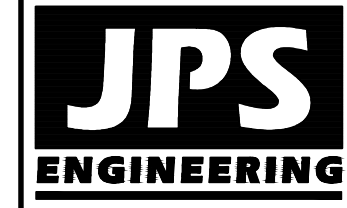
EXPANDED LIMITS OF DISTURBANCE (APPROX, FIELD VERIFY)

800 ft

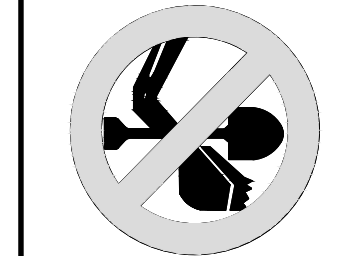
ORIGINAL SCALE  
1"=50' HORIZ.; 1"=5' VERT.  
CONTOUR INTERVAL: 2'

**MONUMENT ACADEMY - HIGHWAY 105 IMPROVEMENTS**

**HIGHWAY 105 GRADING & EROSION CONTROL PLAN**



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FAX: 719-471-0766  
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CALL UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
CALL BUSINESS HOURS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

NO.	REVISION	DATE	BY
1	CDOT SUBMITTAL	5/05/20	JPS
2	COUNTY COMMENTS	5/29/20	JPS

HORIZ. SCALE: 1"=50'	DRAWN: BJJ
VERT. SCALE: 1"=5'	DESIGNED: JPS
SURVEYED: RAMPART	CHECKED: JPS
CREATED: 1/27/20	LAST MODIFIED: 10/31/20
PROJECT NO: 040201	MODIFIED BY: BJJ

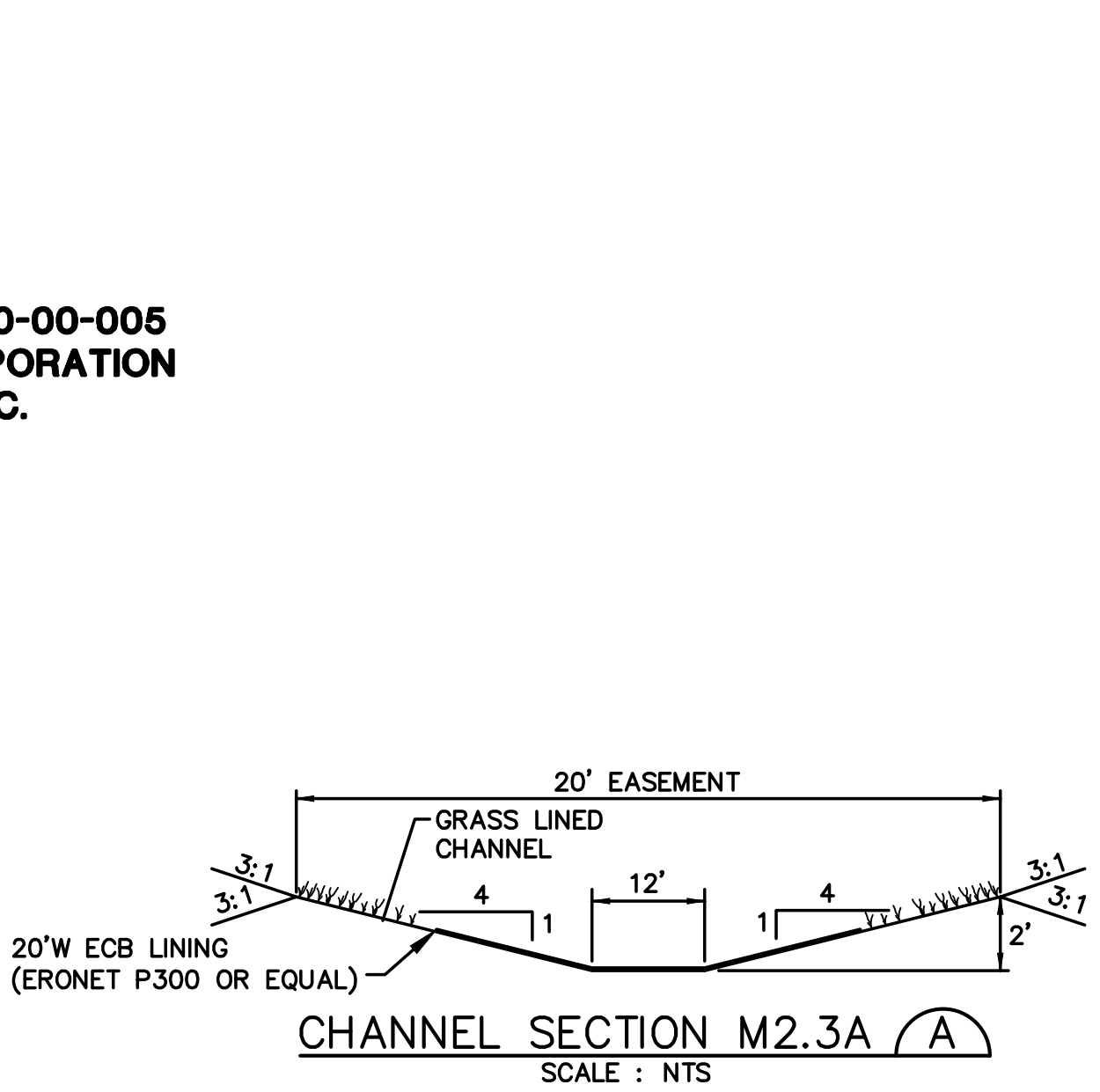
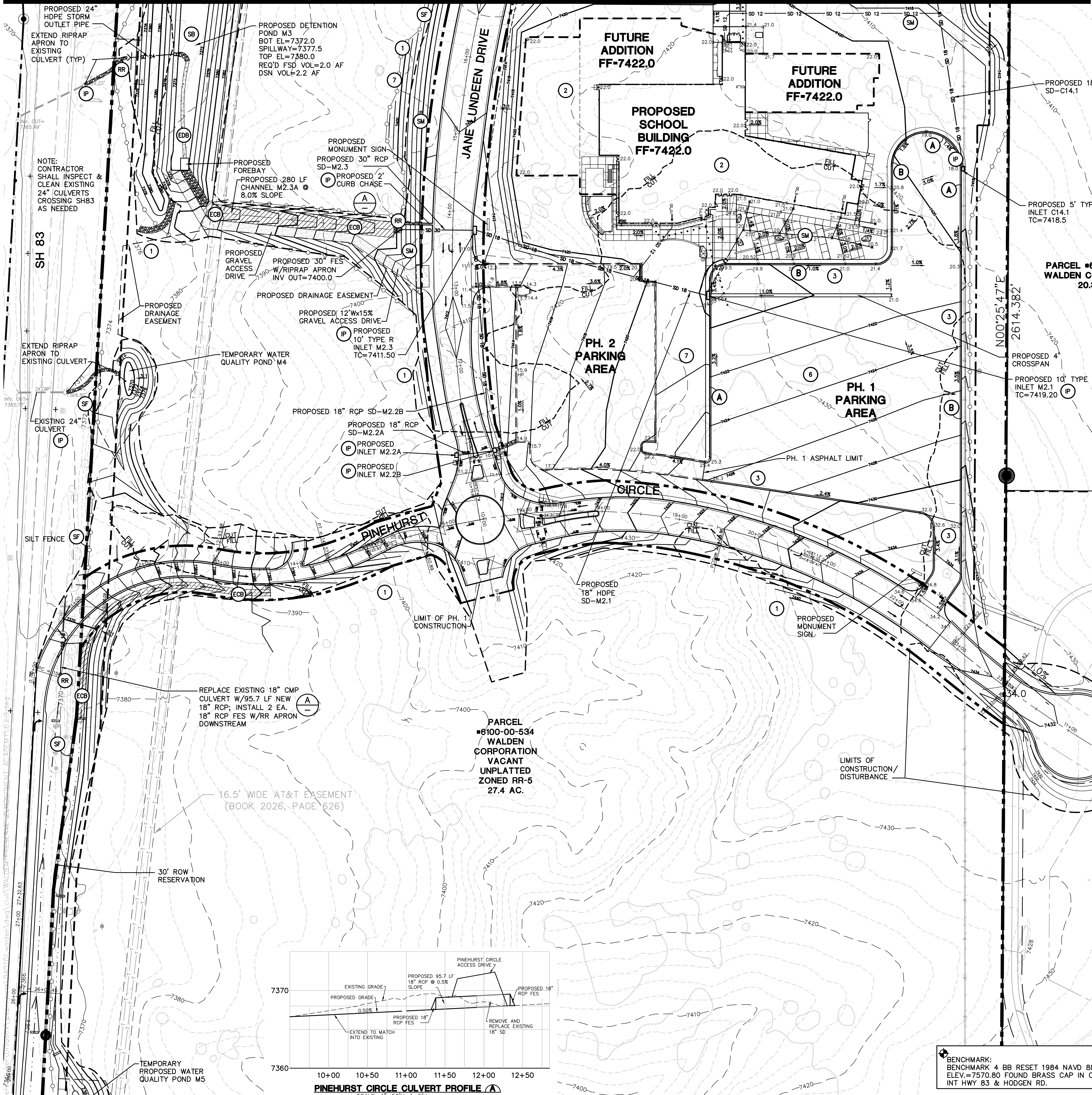
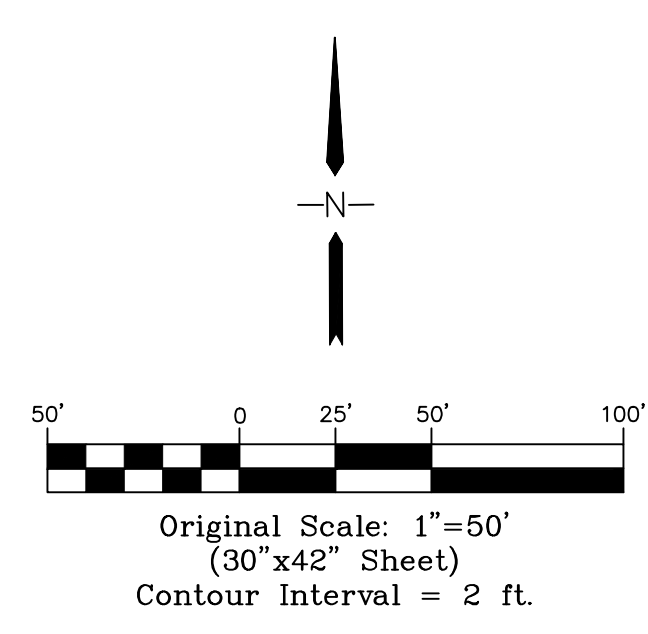
SHEET: **C2.1-HW**

C:\Users\Owner\Desktop\psprojects\040201\walder\civil\WALDEN PRESERVE 2\MONUMENT ACADEMY\HW\2.1-HW.dwg Oct 31, 2020 - 2:49pm



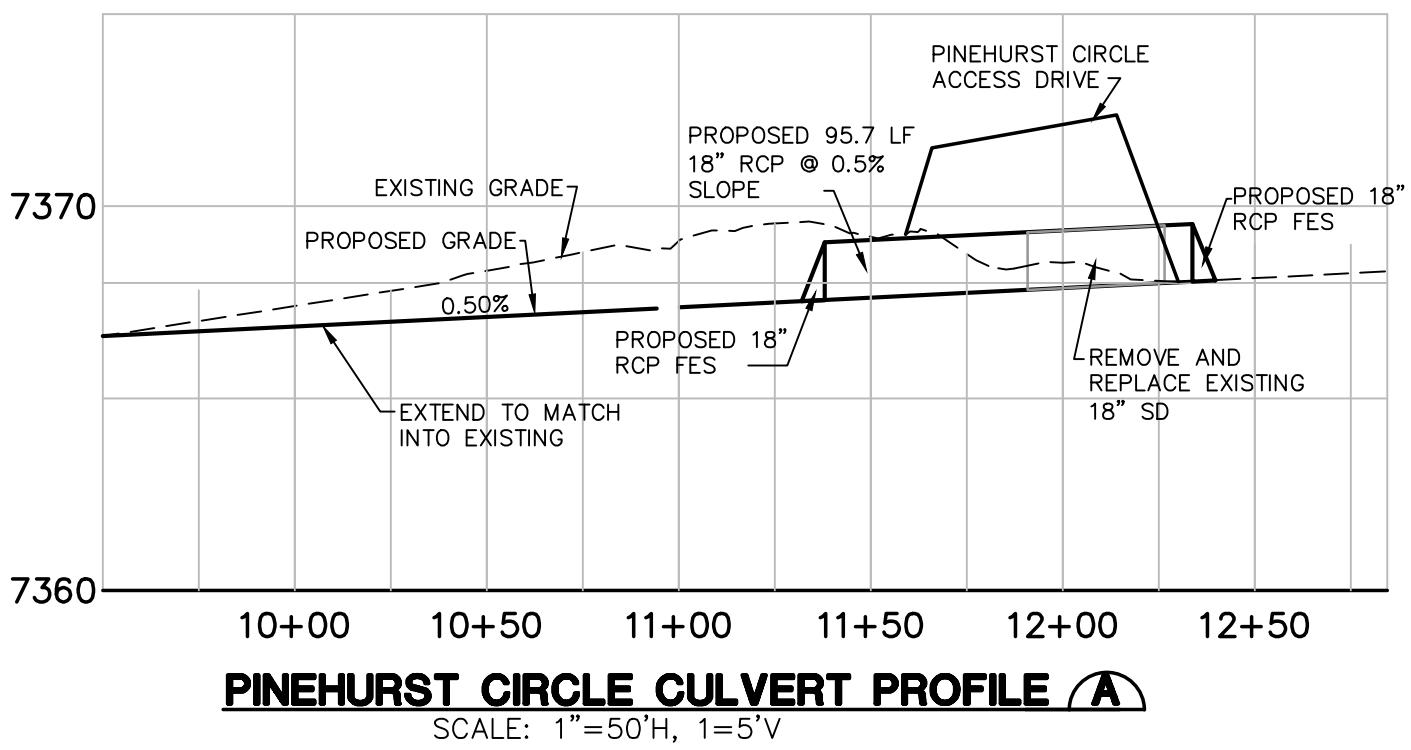
# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION



- LEGEND**
- PROPERTY LINE
  - LIMITS OF DISTURBANCE
  - EASEMENT
  - 6520 PROPOSED CONTOUR
  - 6520 EXISTING CONTOUR
  - × 99.0 PROPOSED SPOT ELEVATION (FLOWLINE)
  - × 99.0 EXIST. SPOT ELEVATION
  - SF SILT FENCE
  - VTC VEHICLE TRACKING PAD
  - IP INLET PROTECTION
  - GB GRASS BUFFER
  - CWA CONCRETE WASHOUT AREA
  - RR RIPRAP PAD
  - SM SEED & MULCH
  - SB SEDIMENT BASIN
  - EDB EXTENDED DETENTION BASIN
  - ECB EROSION CONTROL BLANKET DITCH LINING (ERONET P300 OR EQUAL)
- NOTE:  
ROOF DRAIN DOWNSPOUTS: INSTALL TRANSITION COUPLINGS & EXTEND 12" PVC STORM DRAIN TO STORM SEWER SYSTEM @ 1.0% MIN. SLOPE UNLESS NOTED OTHERWISE (COORDINATE W/ARCH. & PLUMBING PLANS)

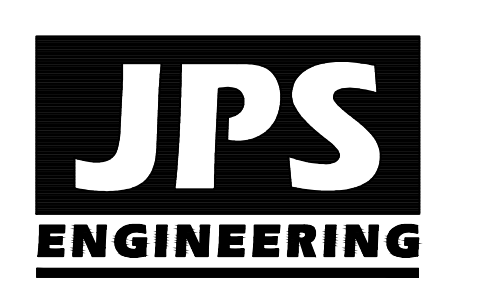
- KEYED NOTES:**
- 1 CONTRACTOR MAY EXCESS CUT MATERIAL OR BORROW SUITABLE FILL MATERIAL FROM THIS AREA. MAINTAIN POSITIVE DRAINAGE & MATCH INTO EXISTING GRADES WITH 3:1 MAX. SLOPE.
  - 2 PREPARE AND COMPACT BUILDING FOUNDATION & SLABS PER PROJECT GEOTECHNICAL REPORT
  - 3 HEAVY DUTY PAVEMENT: 5" HBP OVER 5" ABC (REFER TO GEOTECH REPORT)
  - 4 LIGHT DUTY PAVEMENT: 4" HBP OVER 5" ABC (REFER TO GEOTECH REPORT)
  - 5 2' CURB CHASE
  - 6 BUILDING MATERIAL STORAGE AREA
  - 7 TOPSOIL STOCKPILE AREA



BENCHMARK:  
BENCHMARK 4 BB RESET 1984 NAVD 88 DATUM  
ELEV.=7570.80 FOUND BRASS CAP IN CONCRETE  
INT HWY 83 & HODGEN RD.

NO.	REVISION	BY	DATE
1	FOR PERMIT	JPS	4/01/19
2	COUNTY COMMENTS	JPS	4/29/19
3	COUNTY COMMENTS	JPS	6/20/19
4	COUNTY COMMENTS	JPS	8/23/19
5	ROUNDBOUT REVISIONS	JPS	11/29/19
6	COUNTY COMMENTS	JPS	2/27/20
7	PH. 1B GEC PLANS	JPS	3/04/20
8	COUNTY COMMENTS	JPS	4/08/20
9	COUNTY COMMENTS	JPS	5/05/20
10	COUNTY COMMENTS	JPS	5/15/20

PCD PROJECT NO. CDR-20-001



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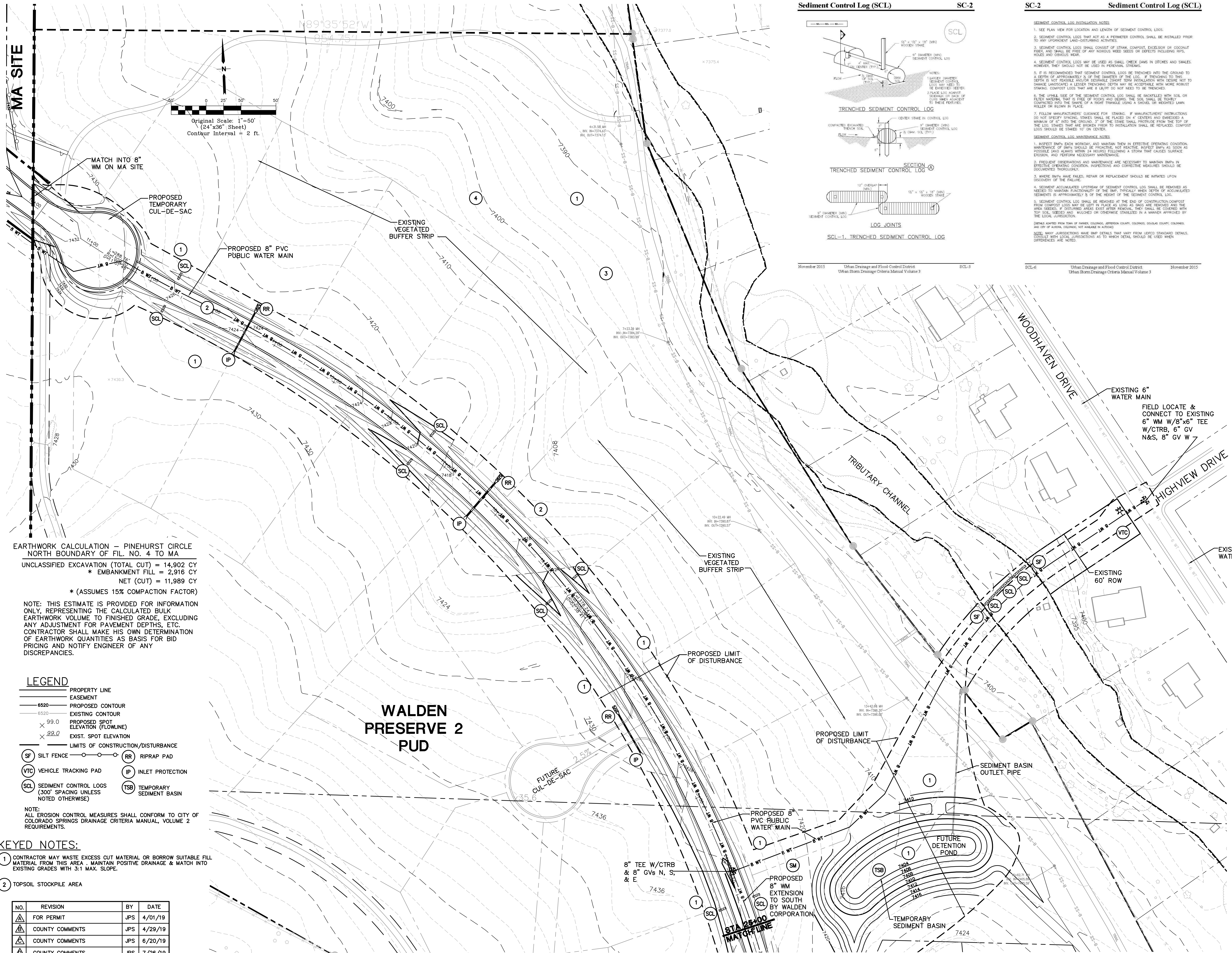
CRP ARCHITECTS AIA  
100 E. St. Vrain, Suite 300  
Colorado Springs, Colorado 80903

**SOUTH SITE GRADING & EROSION CONTROL PLAN**  
SCALE: 1"=50'

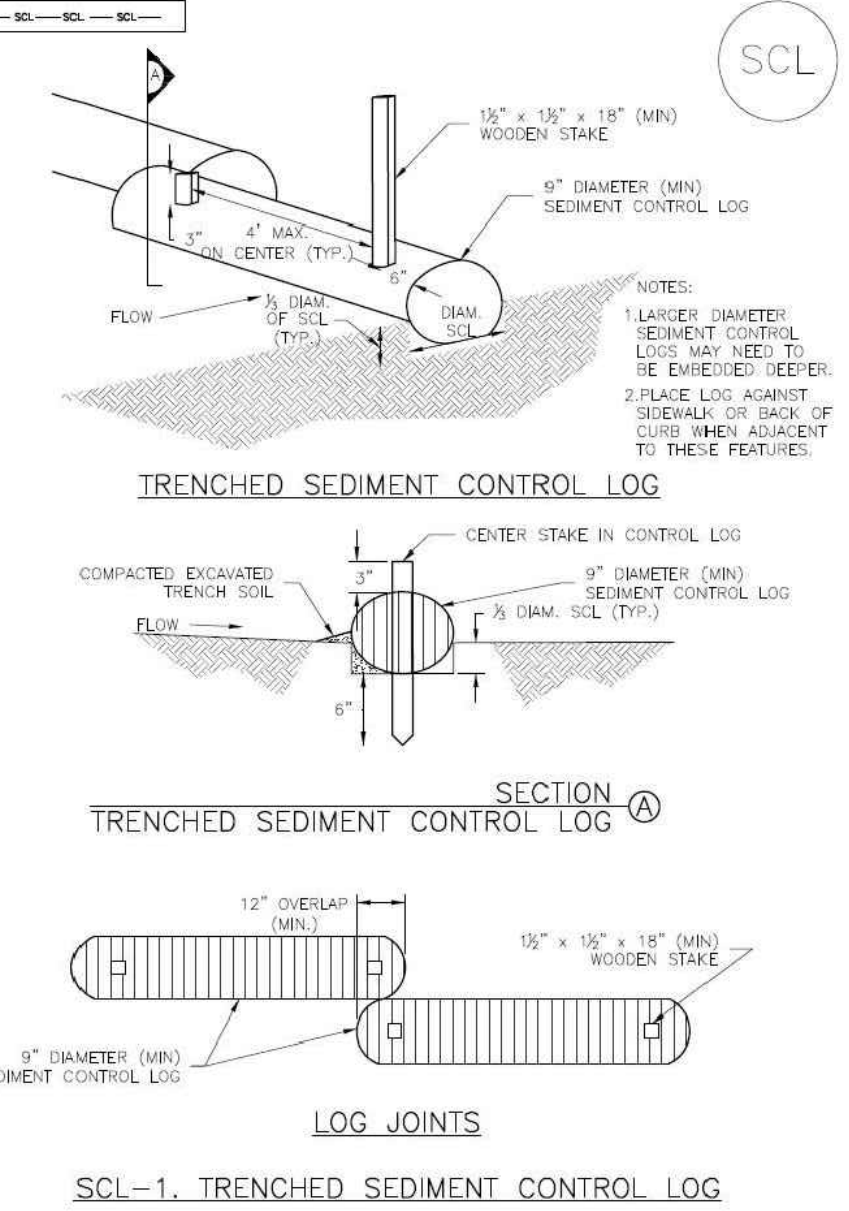
**NORTH**  
DATE: 12/20/18  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 5/15/20

# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION



### Sediment Control Log (SCL) SC-2



November 2015 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SCL-3

### SC-2 Sediment Control Log (SCL)

- SEDIMENT CONTROL LOG INSTALLATION NOTES**
- SEE PLAN VIEW FOR LOCATION AND LENGTH OF SEDIMENT CONTROL LOGS.
  - SEDIMENT CONTROL LOGS THAT ACT AS A PERMEABLE CONTROL SHALL BE INSTALLED PRIOR TO ANY UPGRADE/RESTORATION/DEMOLITION ACTIVITIES.
  - SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELLENT OR COCONUT FIBER, AND SHALL BE FREE OF ANY HAZARDOUS WEED SEEDS OR OBJECTS INCLUDING HOLES AND OBVIOUS WEAR.
  - SEDIMENT CONTROL LOGS MAY BE USED AS SMALL CHECK DAMS IN DITCHES AND SWALES; HOWEVER, THEY SHOULD NOT BE USED IN PERENNIAL STREAMS.
  - IT IS RECOMMENDED THAT SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO A DEPTH OF APPROXIMATELY 1/3 OF THE THICKNESS OF THE LOG. IF TRENCHING TO THIS DEPTH IS NOT FEASIBLE AND/OR DESIRABLE, SHORT TERM INSTALLATIONS WITH DESIRE NOT TO DAMAGE LANDSCAPE AT LESSER TRENCHING DEPTH MAY BE ACCEPTABLE WITH MORE ROBUST STAKING. COMPOST LOGS THAT ARE 8 LB/FT DO NOT NEED TO BE TRENCHED.
  - THE UPHEIL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL OR FILLER MATERIAL THAT IS FREE OF ROCKS AND DEBRIS. THE SOIL SHALL BE THOROUGHLY COMPACTED INTO THE SHAPE OF A RIGHT TRIANGLE USING A SHOVEL OR WEIGHTED LAWN ROLLER OR ROLLER IN PLACE.
  - FOLLOW MANUFACTURER'S GUIDANCE FOR STAKING. IF MANUFACTURER'S INSTRUCTIONS DO NOT SPECIFY STAKING, STAKES SHALL BE PLACED ON 4 FEET INTERVALS AND EXCEEDED A MINIMUM OF 6" INTO THE GROUND. 3" OF THE STAKE SHALL PROTRUDE FROM THE TOP OF THE LOG. STAKES THAT ARE BROKEN PRIOR TO INSTALLATION SHALL BE REPLACED. COMPOST LOGS SHOULD BE STAKED TO ON CENTER.
- SEDIMENT CONTROL LOG MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON OCCURRENCE OF THE FAILURE.
  - SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOGS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/3 OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
  - SEDIMENT CONTROL LOGS SHALL BE REMOVED AT THE END OF CONSTRUCTION/COMPOST FROM COMPOST LOGS MAY BE LEFT IN PLACE AS LONG AS THEY REMAIN AND THE AREA SERVED. IF DISTURBED AREAS EXIST AFTER REMOVAL, THEY SHALL BE COVERED WITH TOP SOIL, SEED, MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
- (DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, JEFFERSON COUNTY, COLORADO, DOUGLAS COUNTY, COLORADO, AND CITY OF DENVER, COLORADO, NOT SHOWN IN ACTUAL SCALE)
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USED STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
- November 2015 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SCL-6

**EARTHWORK CALCULATION - PINEHURST CIRCLE NORTH BOUNDARY OF FIL. NO. 4 TO MA**

UNCLASSIFIED EXCAVATION (TOTAL CUT) = 14,902 CY  
 \* EMBANKMENT FILL = 2,916 CY  
 NET (CUT) = 11,989 CY  
 \* (ASSUMES 15% COMPACTION FACTOR)

NOTE: THIS ESTIMATE IS PROVIDED FOR INFORMATION ONLY, REPRESENTING THE CALCULATED BULK EARTHWORK VOLUME TO FINISHED GRADE, EXCLUDING ANY ADJUSTMENT FOR PAVEMENT DEPTHS, ETC. CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF EARTHWORK QUANTITIES AS BASIS FOR BID PRICING AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

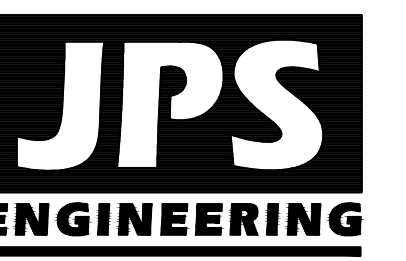
**LEGEND**

---	PROPERTY LINE
---	EASEMENT
---	PROPOSED CONTOUR
---	EXISTING CONTOUR
X 99.0	PROPOSED SPOT ELEVATION (FLOWLINE)
X 99.0	EXIST. SPOT ELEVATION
---	LIMITS OF CONSTRUCTION/DISTURBANCE
SF	SILT FENCE
RR	RIPRAP PAD
VTC	VEHICLE TRACKING PAD
IP	INLET PROTECTION
SCL	SEDIMENT CONTROL LOGS (300' SPACING UNLESS NOTED OTHERWISE)
TSB	TEMPORARY SEDIMENT BASIN

NOTE: ALL EROSION CONTROL MEASURES SHALL CONFORM TO CITY OF COLORADO SPRINGS DRAINAGE CRITERIA MANUAL, VOLUME 2 REQUIREMENTS.

- KEYED NOTES:**
- CONTRACTOR MAY WASTE EXCESS CUT MATERIAL OR BORROW SUITABLE FILL MATERIAL FROM THIS AREA. MAINTAIN POSITIVE DRAINAGE & MATCH INTO EXISTING GRADES WITH 3:1 MAX. SLOPE.
  - TOPSOIL STOCKPILE AREA

NO.	REVISION	BY	DATE
1	FOR PERMIT	JPS	4/01/19
2	COUNTY COMMENTS	JPS	4/29/19
3	COUNTY COMMENTS	JPS	6/20/19
4	COUNTY COMMENTS	JPS	7/26/19
5	REVISED LIMITS OF DISTURBANCE	JPS	1/16/20



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 100 E. St. Vrain, Suite 300  
 Colorado Springs, Colorado 80903

### SOUTH WATER LINE/ PINEHURST CIRCLE GRADING & EROSION CONTROL PLAN

**NORTH** DATE: 9/10/19  
 DRAWN BY: BJJ  
 CHECKED BY: JPS  
 REVISED: 1/30/20

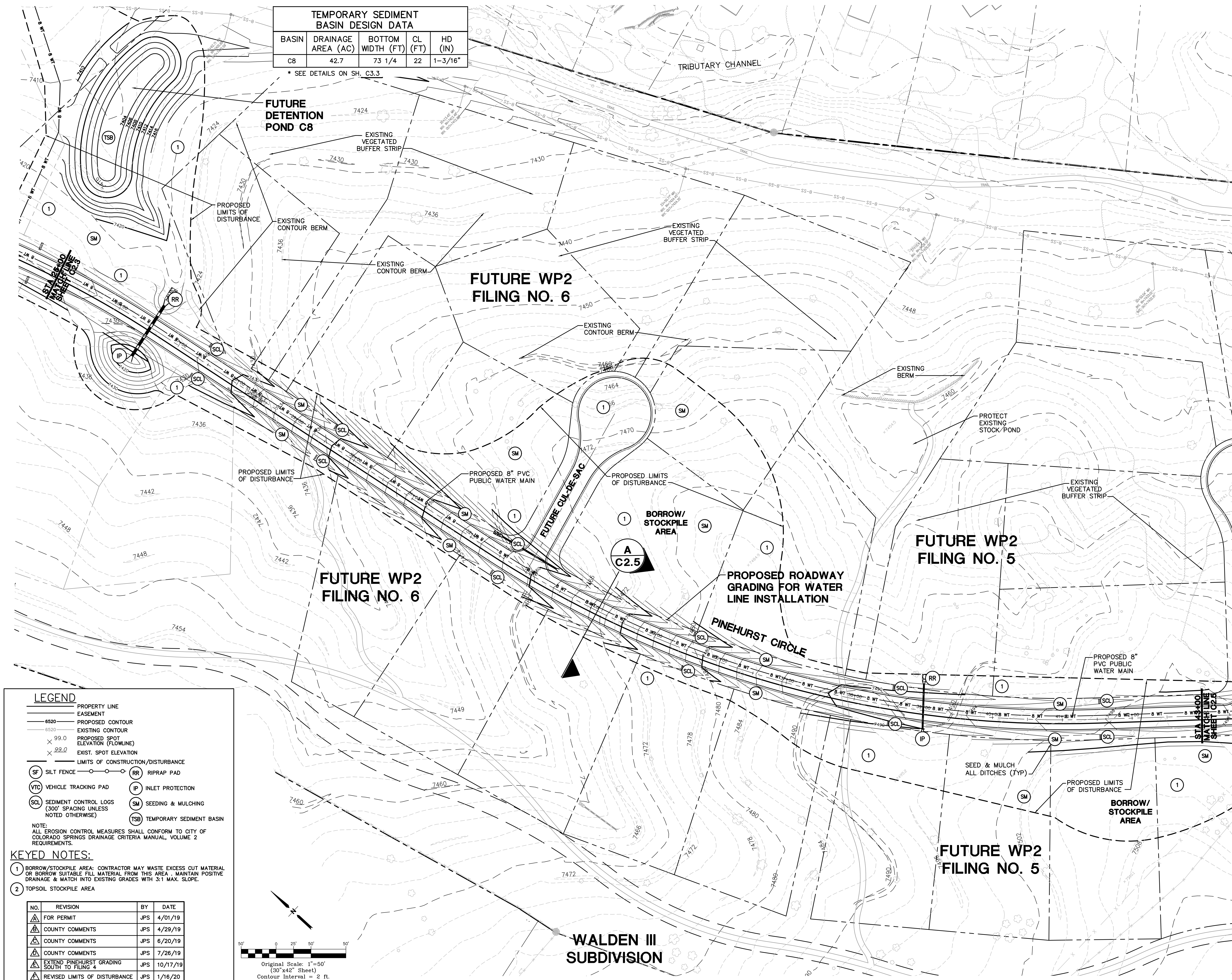
PCD PROJECT NO. PPR-19-009

# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION

TEMPORARY SEDIMENT BASIN DESIGN DATA				
BASIN	DRAINAGE AREA (AC)	BOTTOM WIDTH (FT)	CL (FT)	HD (IN)
C8	42.7	73 1/4	22	1-3/16"

\* SEE DETAILS ON SH. C3.3



**LEGEND**

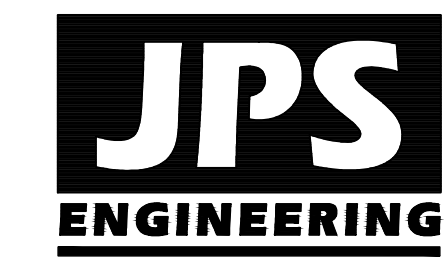
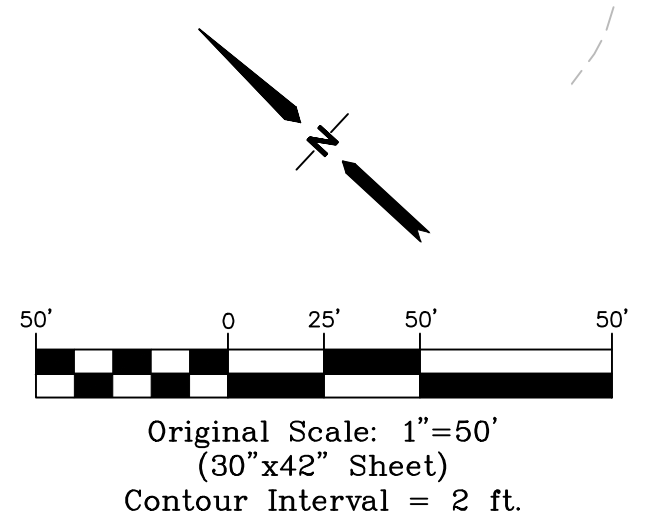
- PROPERTY LINE
- EASEMENT
- 6520 PROPOSED CONTOUR
- 6520 EXISTING CONTOUR
- × 99.0 PROPOSED SPOT ELEVATION (FLOWLINE)
- × 99.0 EXIST. SPOT ELEVATION
- LIMITS OF CONSTRUCTION/DISTURBANCE
- (SF) SILT FENCE
- (VTC) VEHICLE TRACKING PAD
- (SCL) SEDIMENT CONTROL LOGS (300' SPACING UNLESS NOTED OTHERWISE)
- (RR) RIPRAP PAD
- (IP) INLET PROTECTION
- (SM) SEEDING & MULCHING
- (TSB) TEMPORARY SEDIMENT BASIN

NOTE:  
ALL EROSION CONTROL MEASURES SHALL CONFORM TO CITY OF COLORADO SPRINGS DRAINAGE CRITERIA MANUAL, VOLUME 2 REQUIREMENTS.

**KEYED NOTES:**

- BORROW/STOCKPILE AREA: CONTRACTOR MAY WASTE EXCESS CUT MATERIAL OR BORROW SUITABLE FILL MATERIAL FROM THIS AREA. MAINTAIN POSITIVE DRAINAGE & MATCH INTO EXISTING GRADES WITH 3:1 MAX. SLOPE.
- TOPSOIL STOCKPILE AREA

NO.	REVISION	BY	DATE
1	FOR PERMIT	JPS	4/01/19
2	COUNTY COMMENTS	JPS	4/29/19
3	COUNTY COMMENTS	JPS	6/20/19
4	COUNTY COMMENTS	JPS	7/26/19
5	EXTEND PINEHURST GRADING SOUTH TO FILING 4	JPS	10/17/19
6	REVISED LIMITS OF DISTURBANCE	JPS	1/16/20



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**SOUTH WATER LINE/  
PINEHURST CIRCLE GRADING  
& EROSION CONTROL PLAN**

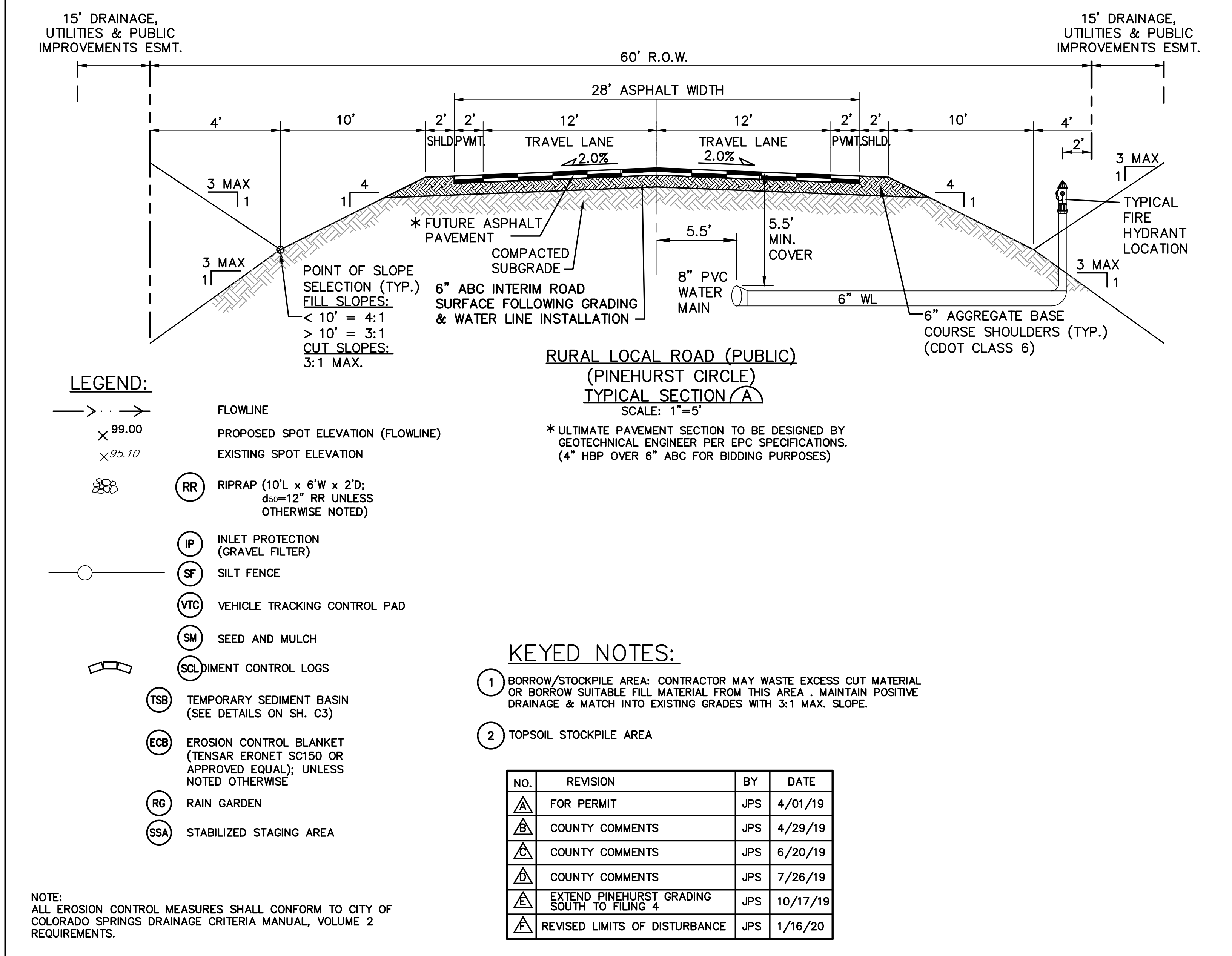
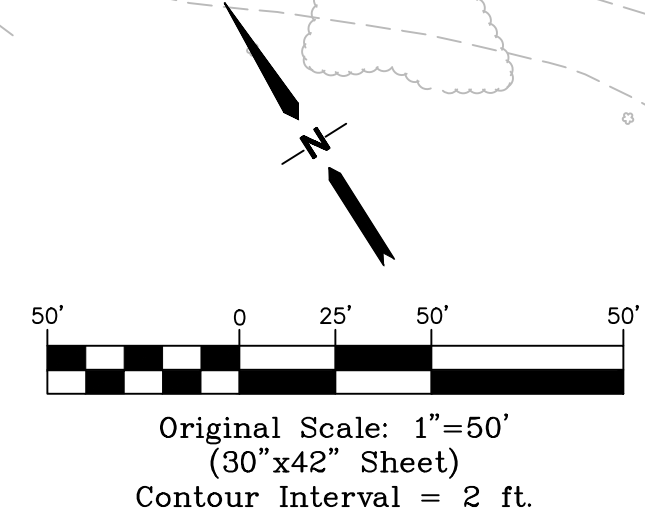
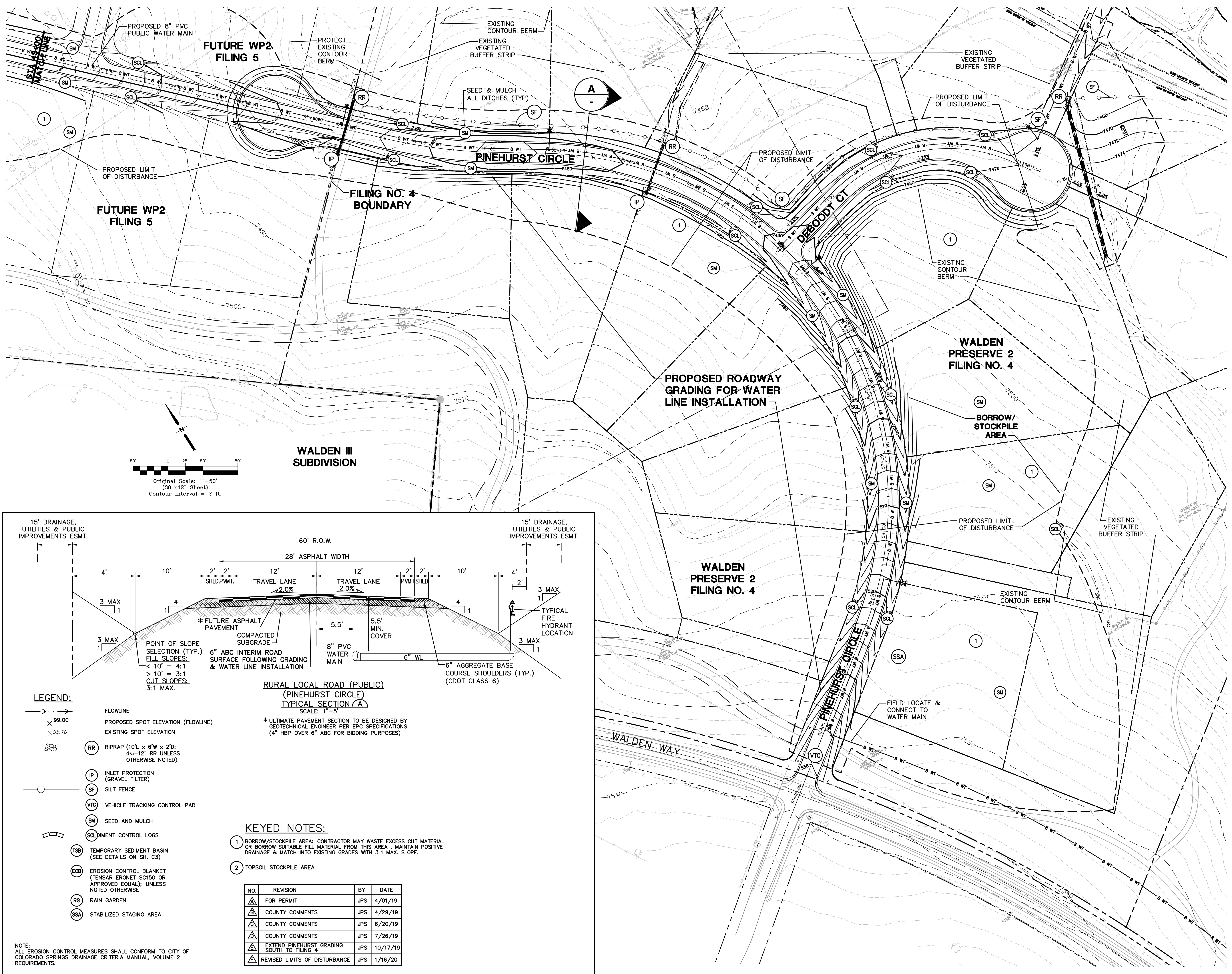
DATE: 9/10/19  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 1/30/20

PCD PROJECT NO. PPR-19-009

EPC 5/27/2020 **C2.4**

# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION

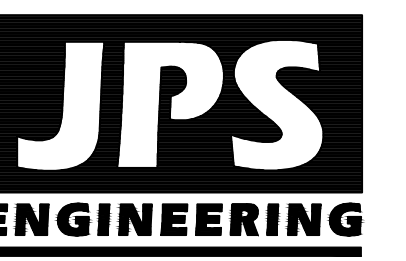
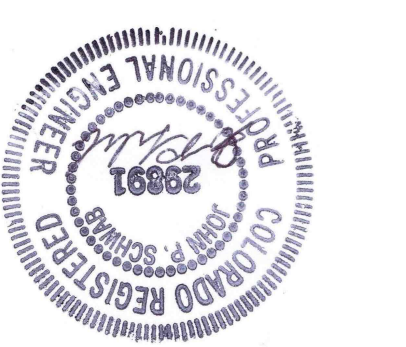


- LEGEND:**
- FLOWLINE
  - × 99.00 PROPOSED SPOT ELEVATION (FLOWLINE)
  - × 95.10 EXISTING SPOT ELEVATION
  - RR RIPRAP (10'L x 6"W x 2"D; d<sub>50</sub>=12" RR UNLESS OTHERWISE NOTED)
  - IP INLET PROTECTION (GRAVEL FILTER)
  - SF SILT FENCE
  - VTC VEHICLE TRACKING CONTROL PAD
  - SM SEED AND MULCH
  - SCL SEDIMENT CONTROL LOGS
  - TSB TEMPORARY SEDIMENT BASIN (SEE DETAILS ON SH. C3)
  - ECB EROSION CONTROL BLANKET (TENSAR ERONET SC150 OR APPROVED EQUAL); UNLESS NOTED OTHERWISE
  - RG RAIN GARDEN
  - SSA STABILIZED STAGING AREA

- KEYED NOTES:**
- 1 BORROW/STOCKPILE AREA: CONTRACTOR MAY WASTE EXCESS CUT MATERIAL OR BORROW SUITABLE FILL MATERIAL FROM THIS AREA. MAINTAIN POSITIVE DRAINAGE & MATCH INTO EXISTING GRADES WITH 3:1 MAX. SLOPE.
  - 2 TOPSOIL STOCKPILE AREA

NO.	REVISION	BY	DATE
△	FOR PERMIT	JPS	4/01/19
△	COUNTY COMMENTS	JPS	4/29/19
△	COUNTY COMMENTS	JPS	6/20/19
△	COUNTY COMMENTS	JPS	7/26/19
△	EXTEND PINEHURST GRADING SOUTH TO FILING 4	JPS	10/17/19
△	REVISED LIMITS OF DISTURBANCE	JPS	1/16/20

NOTE: ALL EROSION CONTROL MEASURES SHALL CONFORM TO CITY OF COLORADO SPRINGS DRAINAGE CRITERIA MANUAL, VOLUME 2 REQUIREMENTS.



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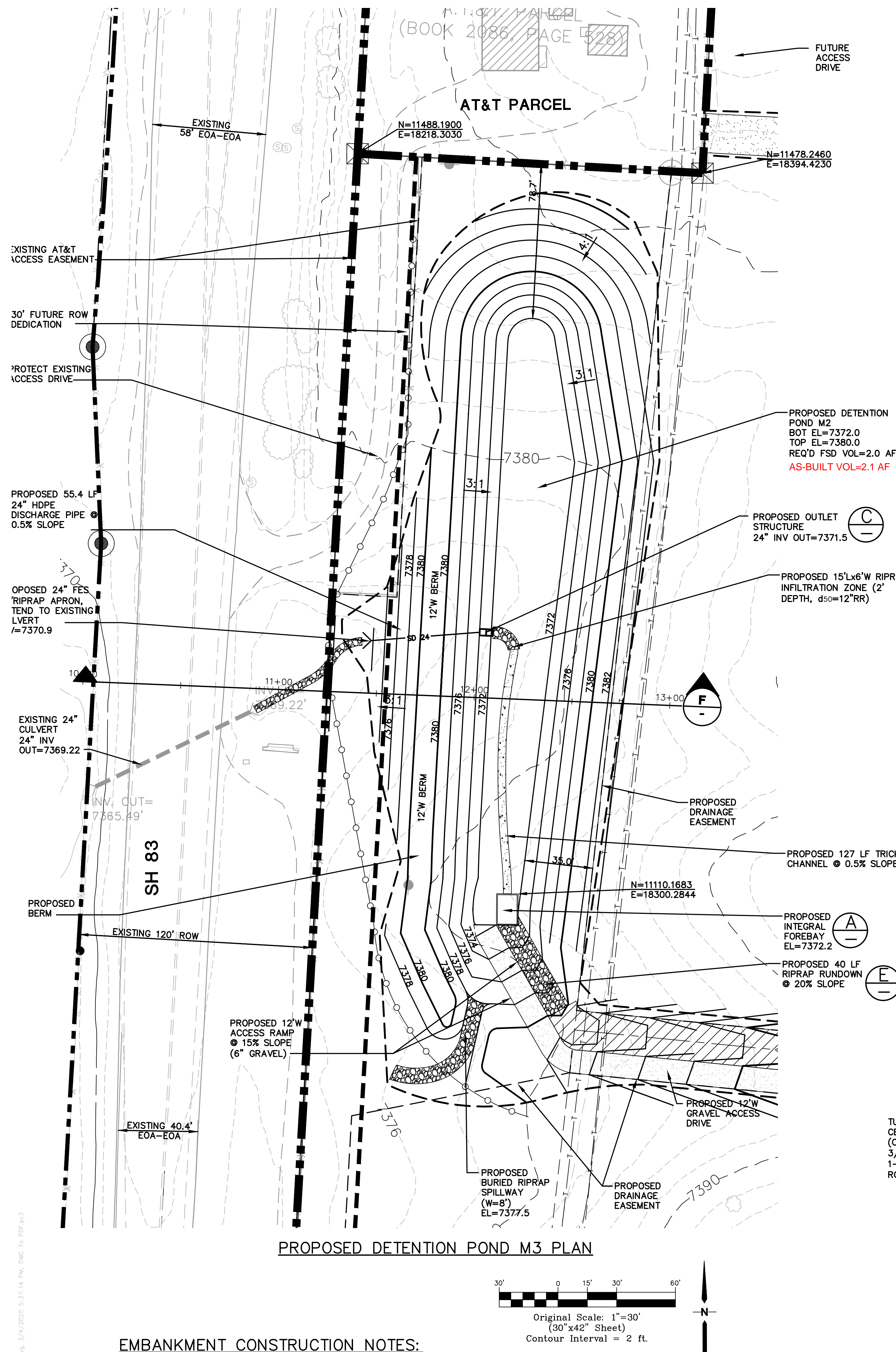
## SOUTH WATER LINE/ PINEHURST CIRCLE GRADING & EROSION CONTROL PLAN

DATE: 9/10/19  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 1/30/20

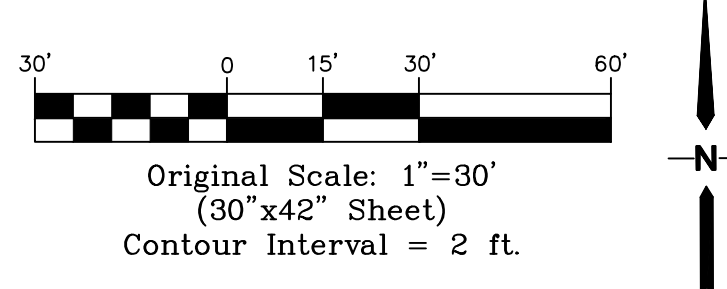
# ENGINEERING RECORD DRAWINGS

# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION



PROPOSED DETENTION POND M3 PLAN

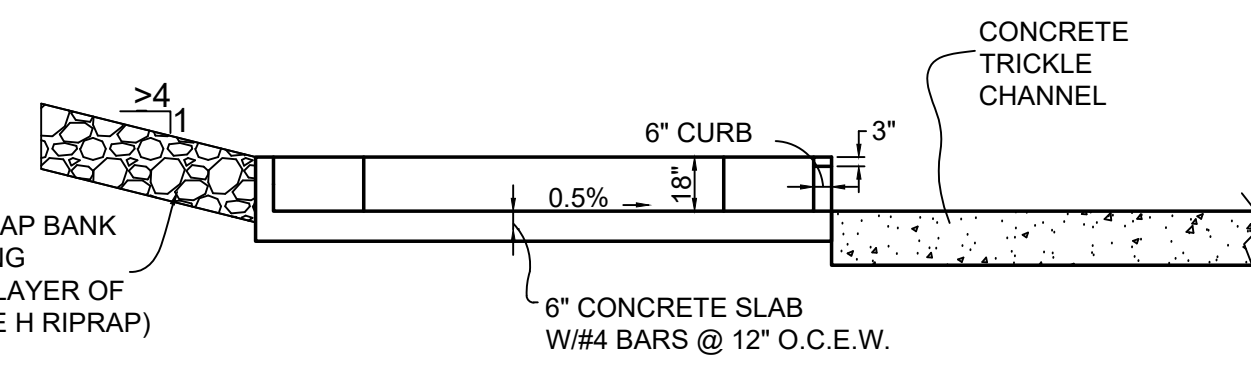
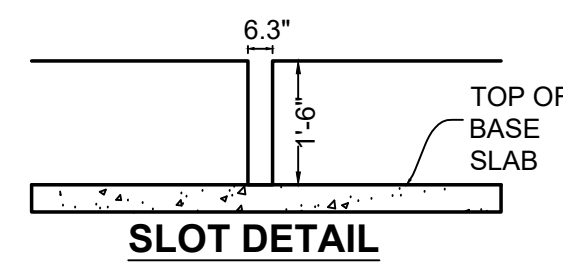
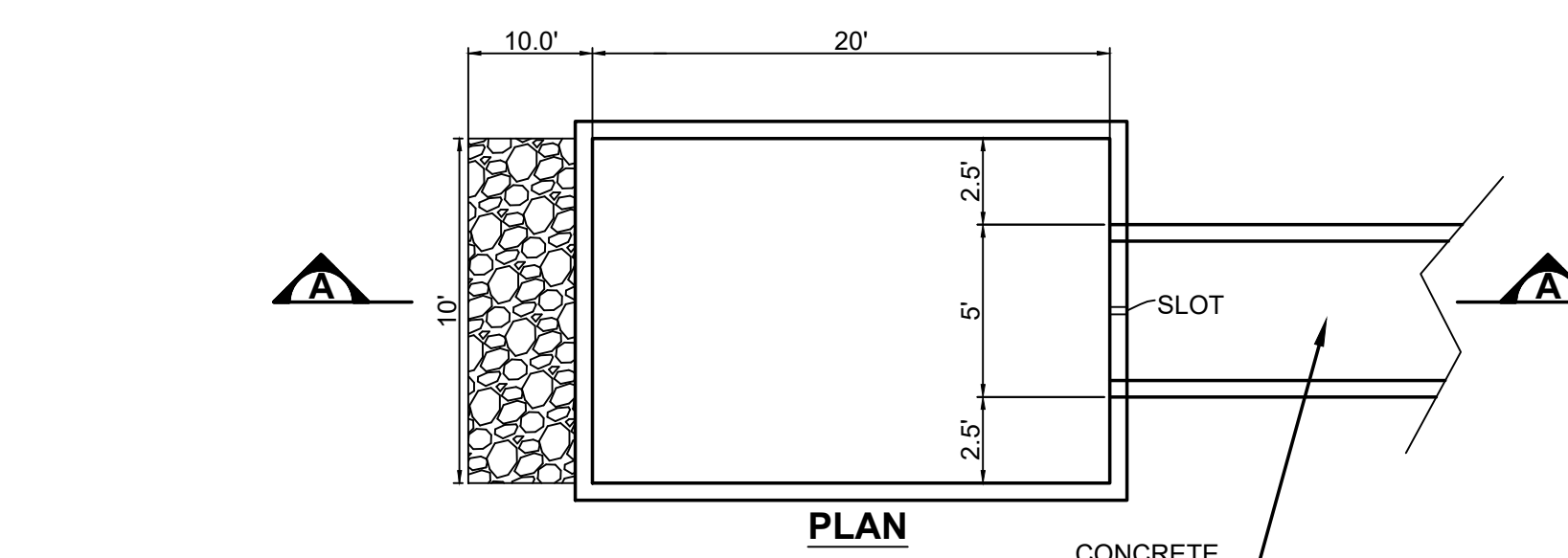


### EMBANKMENT CONSTRUCTION NOTES:

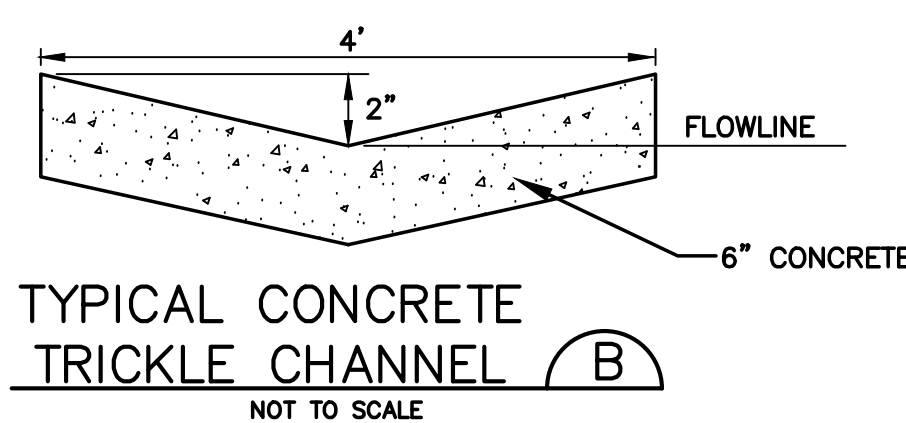
1. COMPLY WITH RECOMMENDATIONS IN PROJECT GEOTECHNICAL REPORT BY KUMAR.
2. PROVIDE EMBANKMENT KEY-IN BY OVER-EXCAVATING & RE-COMPACTING MIN. 2' DEPTH & 12' WIDTH AT BASE OF EMBANKMENT.
3. COMPACT FILL MATERIAL TO 100% MAX. STANDARD PROCTOR DENSITY.
4. PROVIDE CONCRETE COLLAR ON POND DISCHARGE PIPE AT CENTER OF EMBANKMENT (MIN. 8" BEYOND PIPE O.D.; MIN. 12" THICK)

### VERTICAL CONTROL POINT

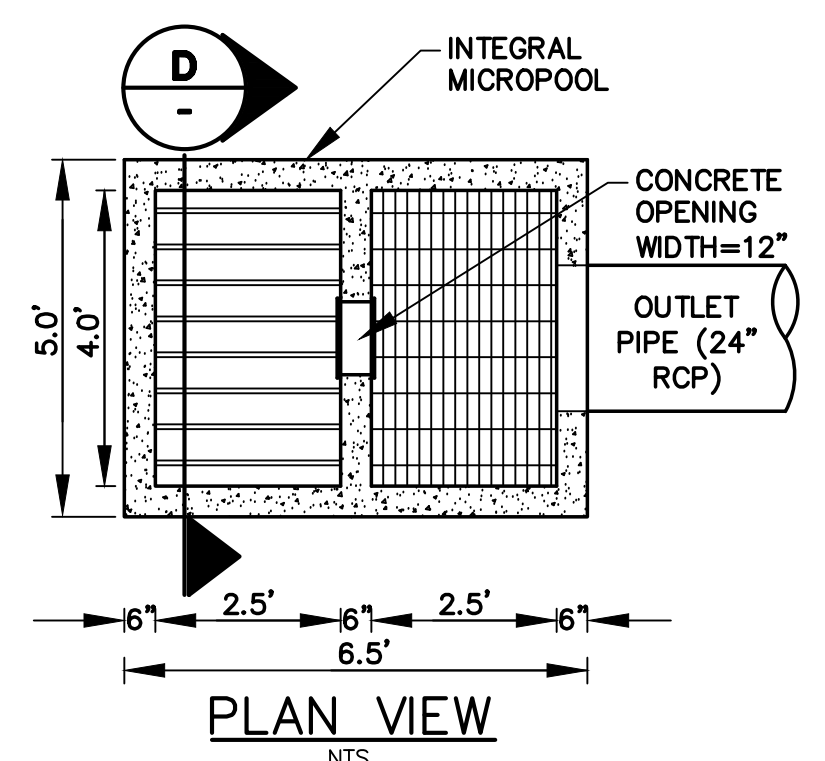
BENCHMARK:  
BENCHMARK 4 BB RESET 1984 NAVD 88 DATUM  
ELEV.=7570.80 FOUND BRASS CAP IN CONCRETE  
INT HWY 83 & HODGEN RD.



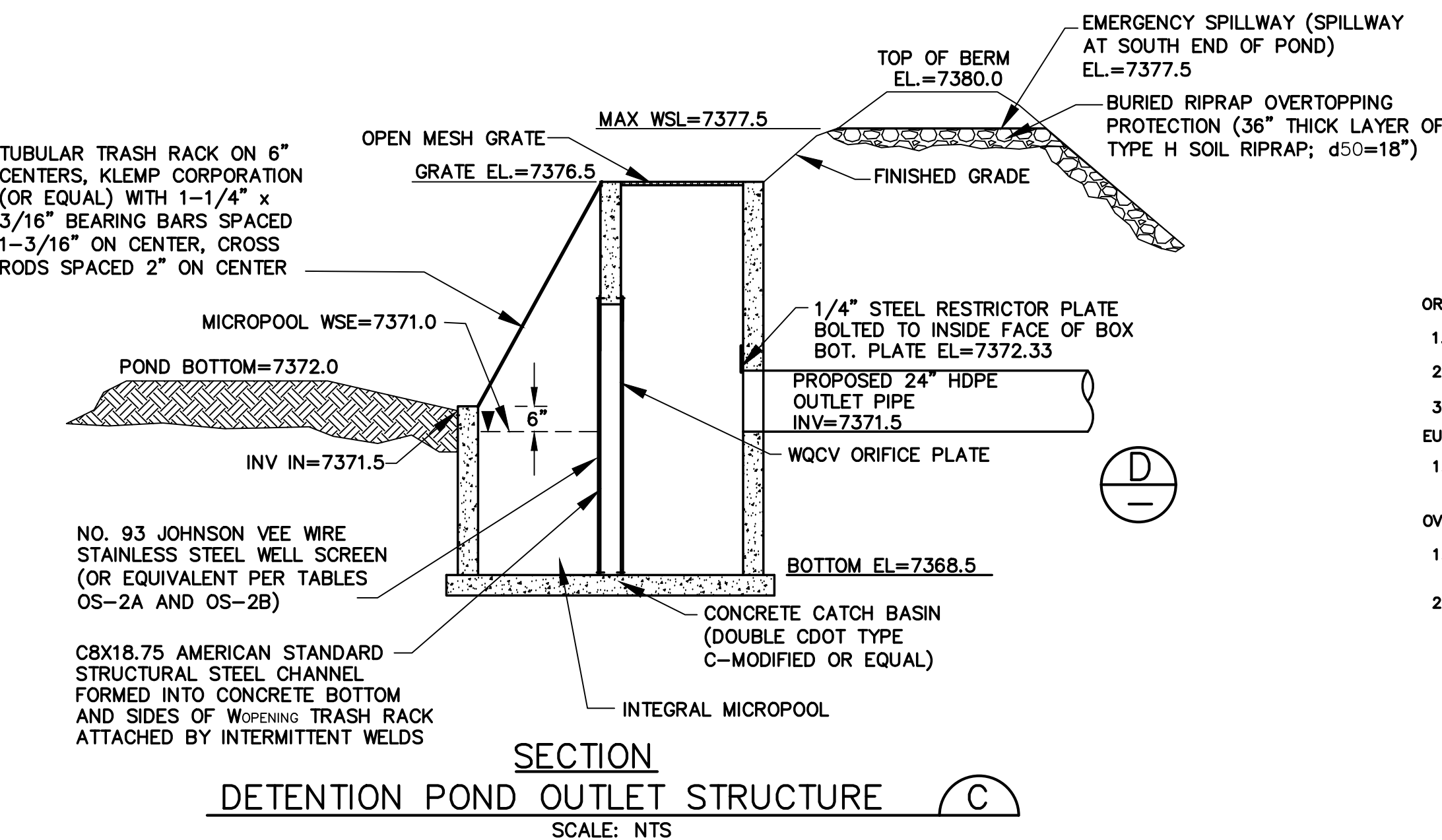
INTEGRAL FOREBAY DETAIL A



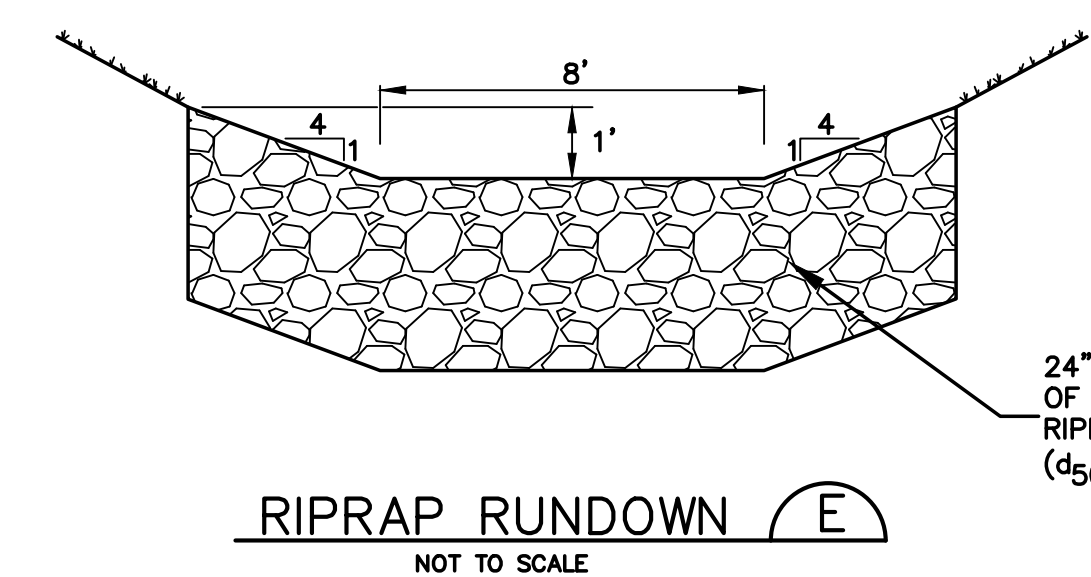
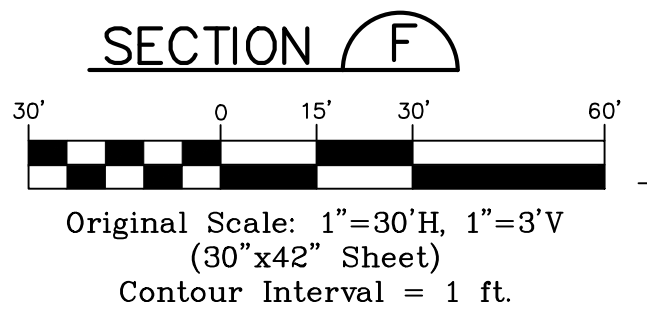
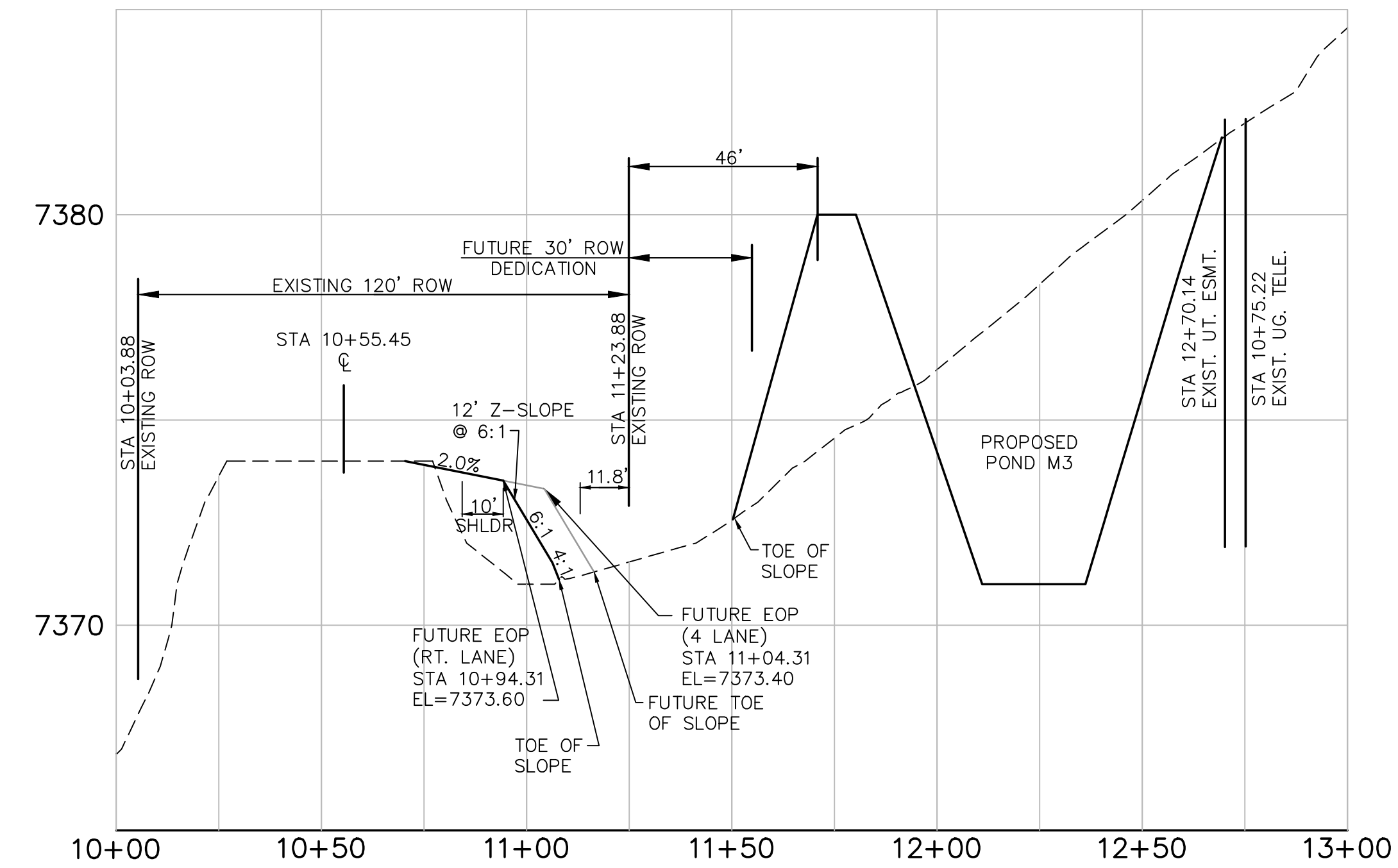
TYPICAL CONCRETE TRICKLE CHANNEL B



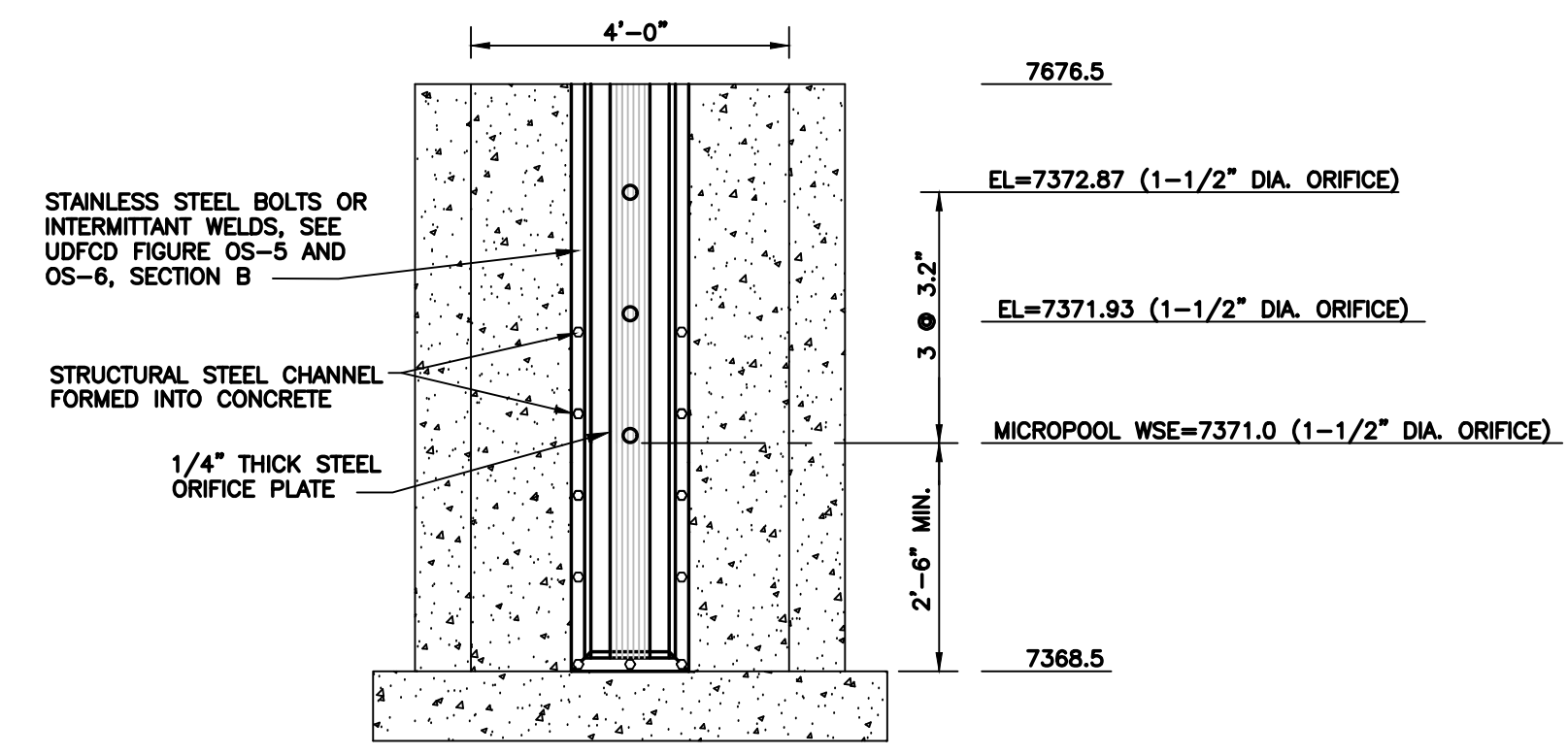
PLAN VIEW



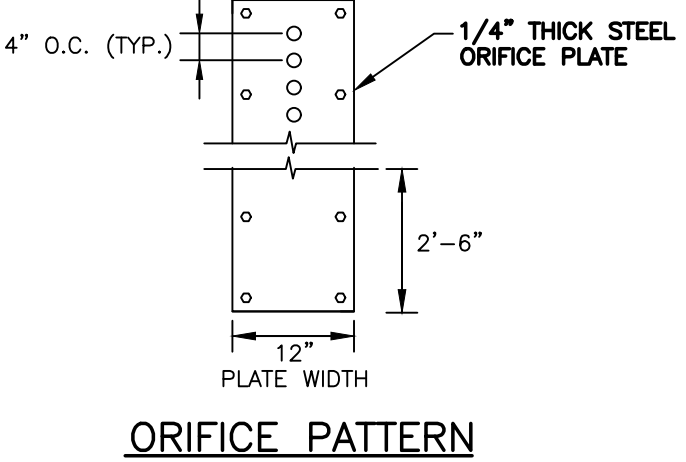
SECTION DETENTION POND OUTLET STRUCTURE C



RIPRAP RUNDOWN E



ELEVATION



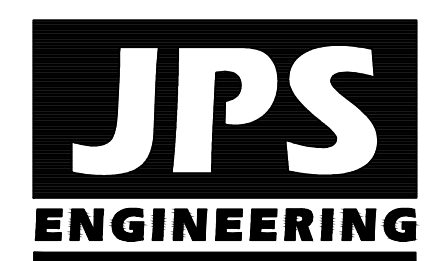
ORIFICE PATTERN

### ORIFICE PLATE NOTES:

1. MINIMIZE THE NUMBER OF COLUMNS.
  2. PROVIDE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE.
  3. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER.
- EMERGENCY SPILLWAY (SPILLWAY AT SOUTH END OF POND) EL=7380.0
- BURIED RIPRAP OVERTOPPING PROTECTION (36" THICK LAYER OF TYPE H SOIL RIPRAP; d50=18")
- NO. 93 JOHNSON VEE WIRE STAINLESS STEEL WELL SCREEN (OR EQUIVALENT PER TABLES OS-2A AND OS-2B)
- CBX18.75 AMERICAN STANDARD STRUCTURAL STEEL CHANNEL FORMED INTO CONCRETE BOTTOM AND SIDES OF WELLS; TRASH RACK ATTACHED BY INTERMITTENT WELDS
- CONCRETE CATCH BASIN (DOUBLE CDOT TYPE C-MODIFIED OR EQUAL)
- INTEGRAL MICROPOOL
- 1/4" STEEL RESTRICTOR PLATE BOLTED TO INSIDE FACE OF BOX BOT. PLATE EL=7372.33
- PROPOSED 24" HDPE OUTLET PIPE INV=7371.5
- WQCV ORIFICE PLATE
- BOTTOM EL=7368.5
- CONCRETE COLLAR ON POND DISCHARGE PIPE AT CENTER OF EMBANKMENT (MIN. 8" BEYOND PIPE O.D.; MIN. 12" THICK)

TYPICAL WQCV ORIFICE PLATE DETAIL D

NO.	REVISION	BY	DATE
1	FOR PERMIT	JPS	4/17/19
2	COUNTY COMMENTS	JPS	4/29/19
3	COUNTY/CDOT COMMENTS	JPS	7/23/19
4	PH. 1B GEC PLANS	JPS	3/04/20



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CRP ARCHITECTS AIA  
100 E. St. Vrain, Suite 300  
Colorado Springs, Colorado 80903

### DETENTION POND M3 PLAN & DETAILS

SCALE: AS SHOWN

NORTH DATE: 12/20/18  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 3/04/20

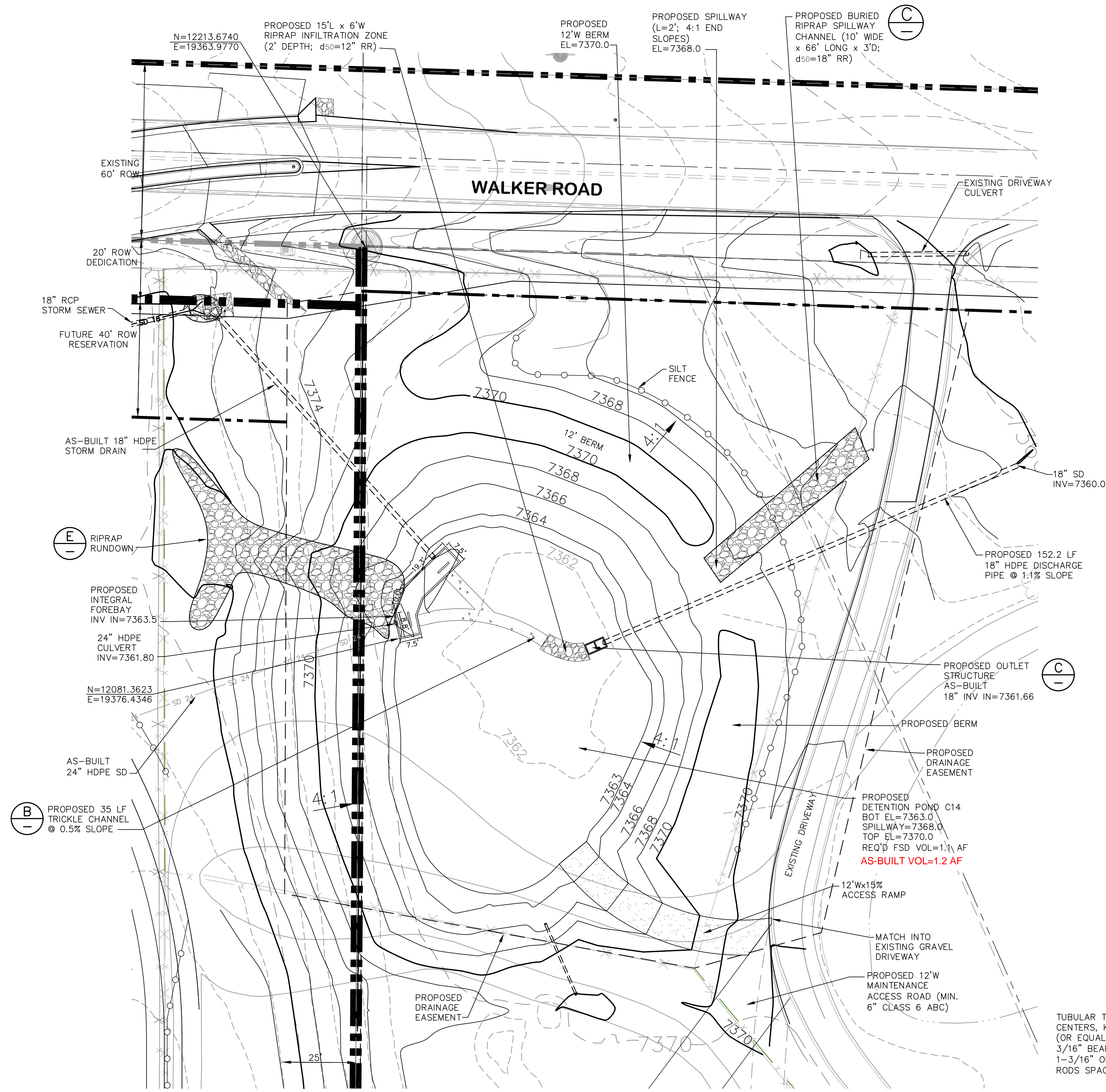
PCD PROJECT NO. PPR-19-009

EPC 5/27/2020 C3.1

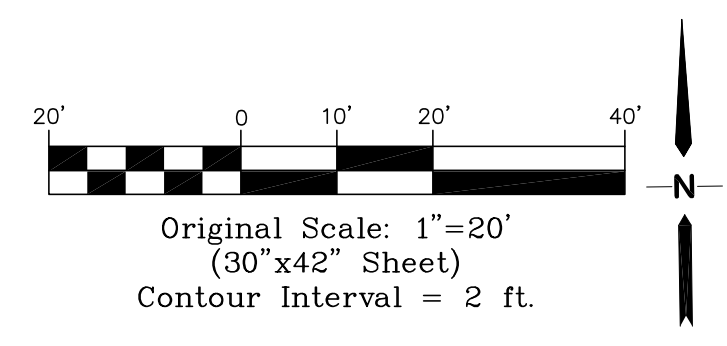
# ENGINEERING RECORD DRAWINGS

# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION

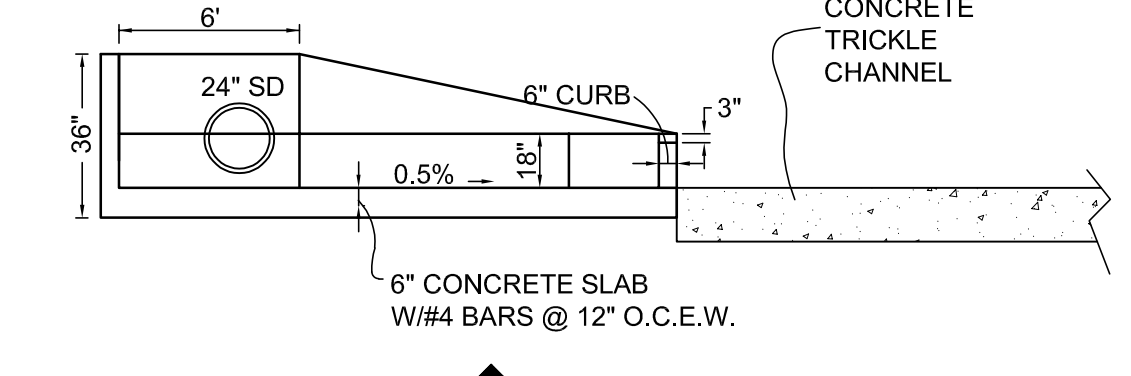
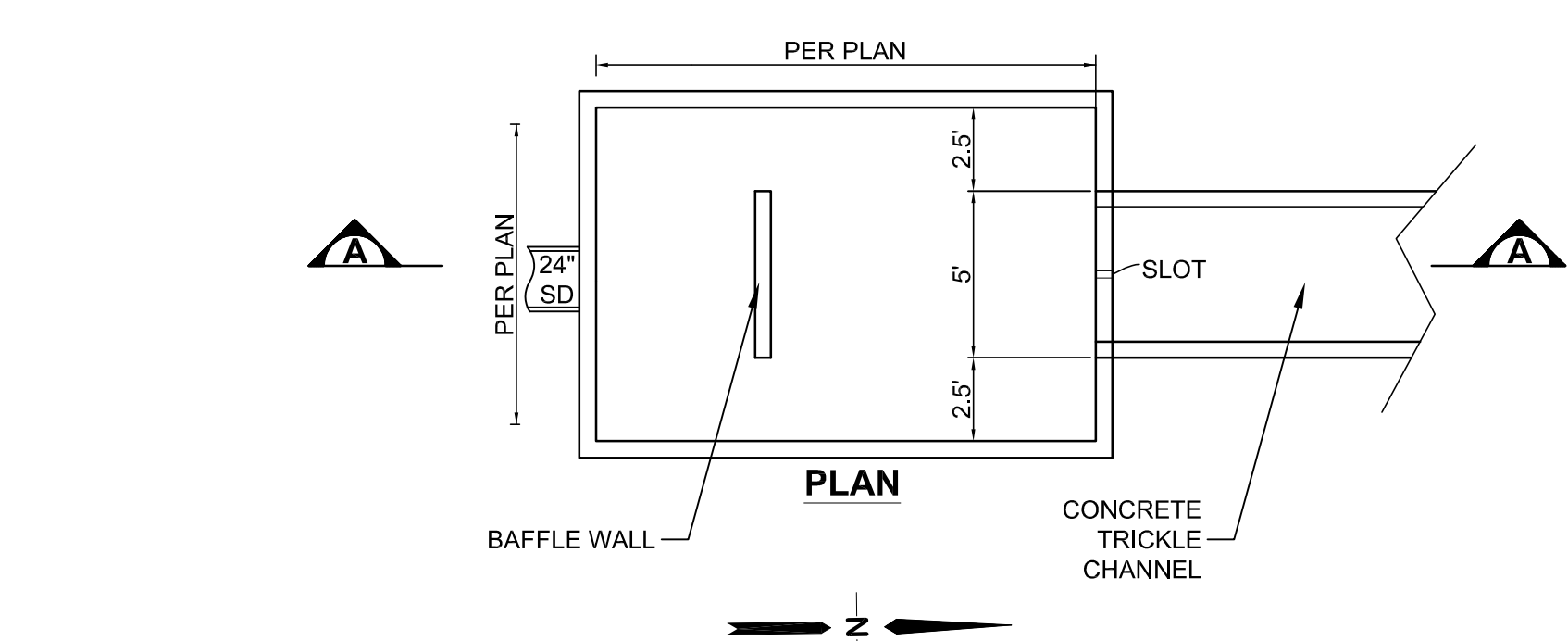


ENLARGED DETENTION POND C14 PLAN

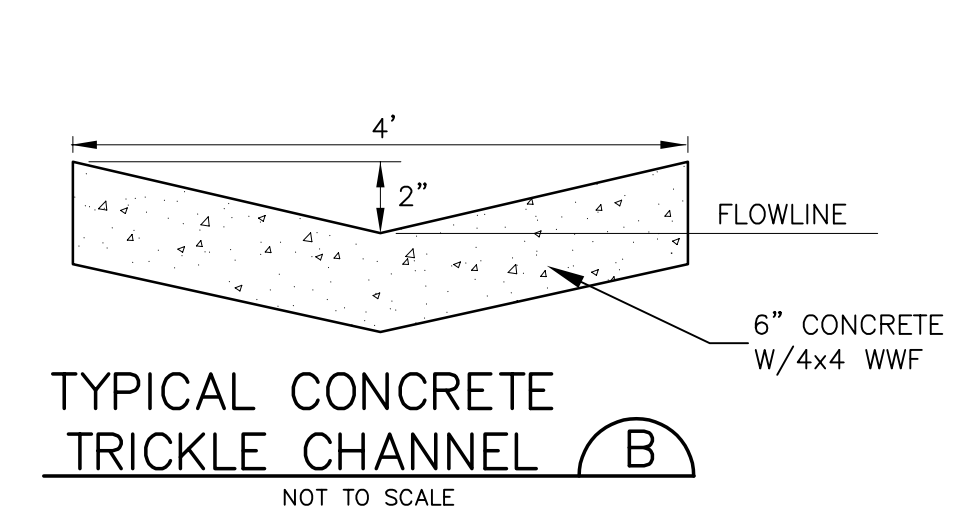


**VERTICAL CONTROL POINT**  
 BENCHMARK:  
 BENCHMARK 4 BB RESET 1984 NAVD  
 88 DATUM ELEV.=7570.80 FOUND  
 BRASS CAP IN CONCRETE INT HWY 83  
 & HODGEN RD.

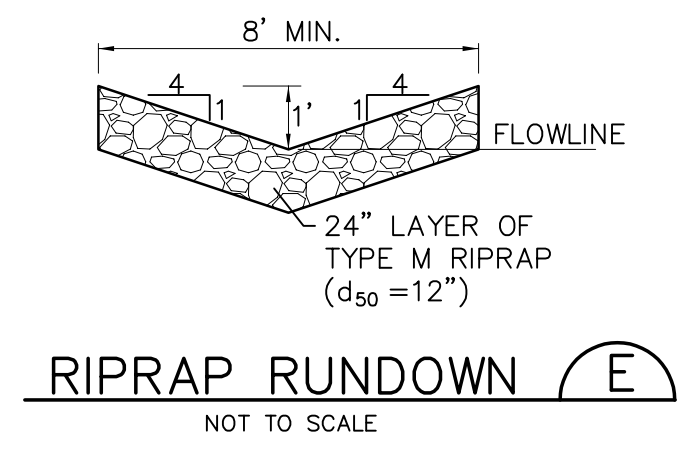
- EMBANKMENT CONSTRUCTION NOTES:**
1. COMPLY WITH RECOMMENDATIONS IN PROJECT GEOTECHNICAL REPORT BY KUMAR.
  2. PROVIDE EMBANKMENT KEY-IN BY OVER-EXCAVATING & RE-COMPACTING MIN. 2' DEPTH & 12' WIDTH AT BASE OF EMBANKMENT.
  3. COMPACT FILL MATERIAL TO 100% MAX. STANDARD PROCTOR DENSITY.
  4. PROVIDE CONCRETE COLLAR ON POND DISCHARGE PIPE AT CENTER OF EMBANKMENT (MIN. 8" BEYOND PIPE O.D.; MIN. 12" THICK)



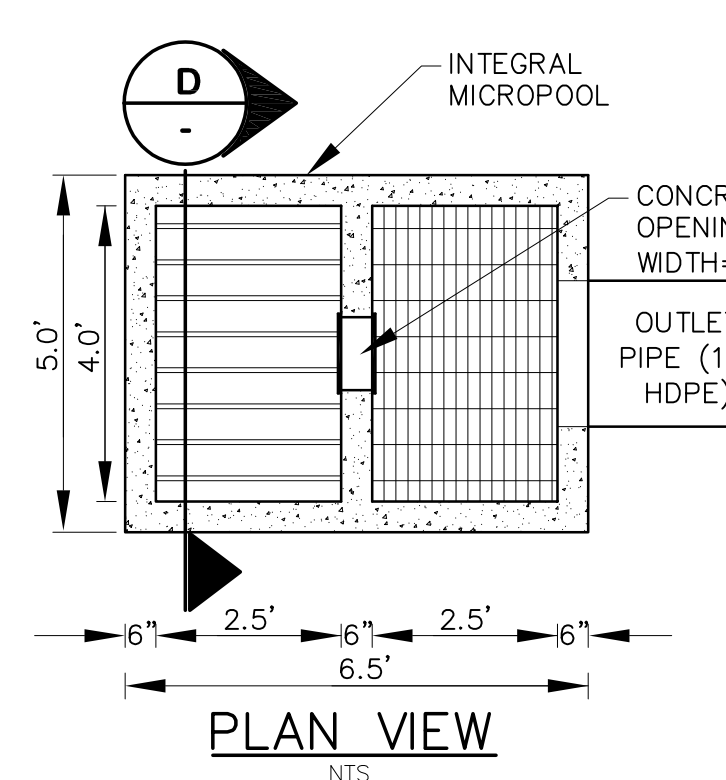
INTEGRAL FOREBAY DETAIL (A)



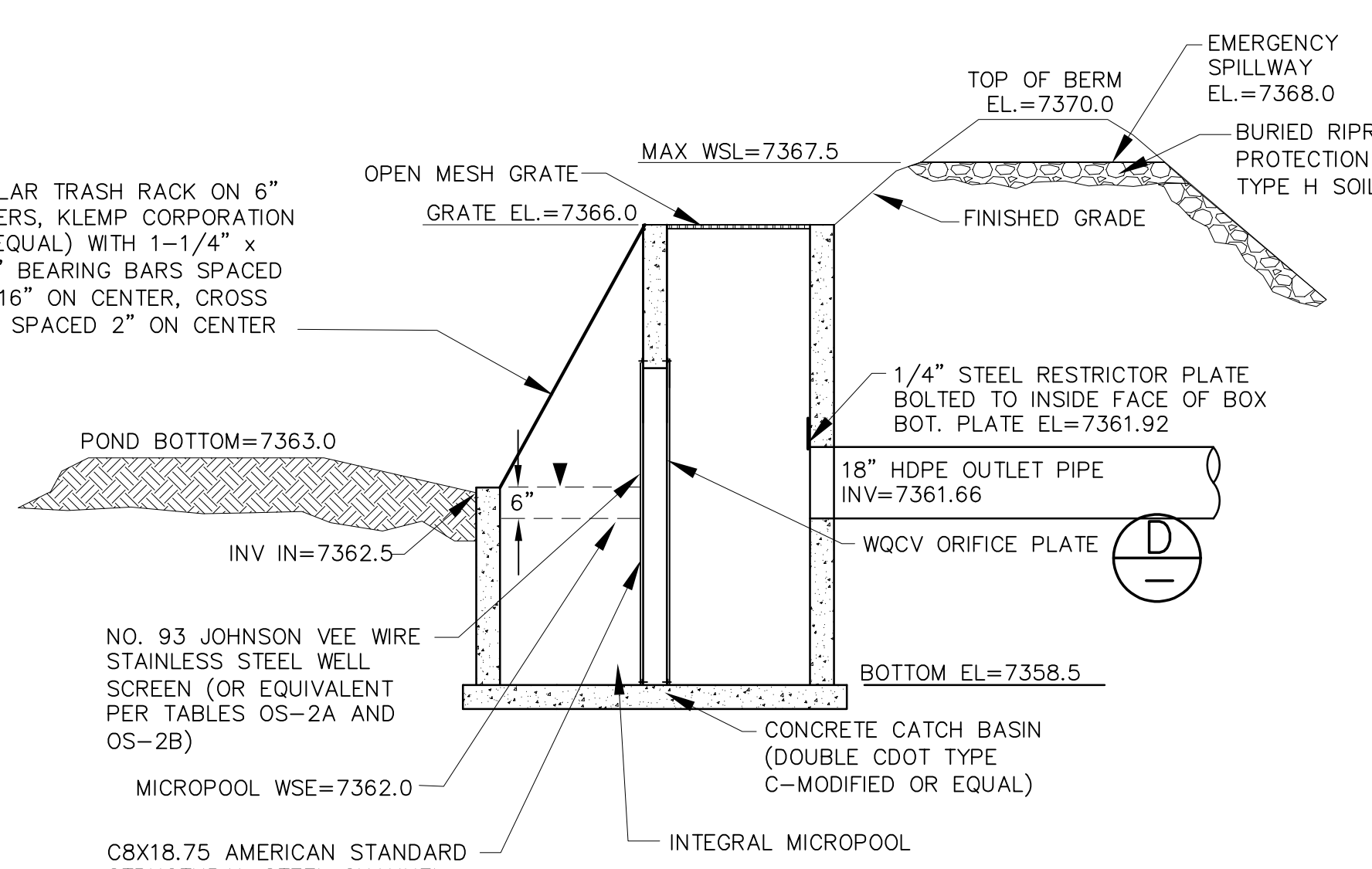
TYPICAL CONCRETE TRICKLE CHANNEL (B)



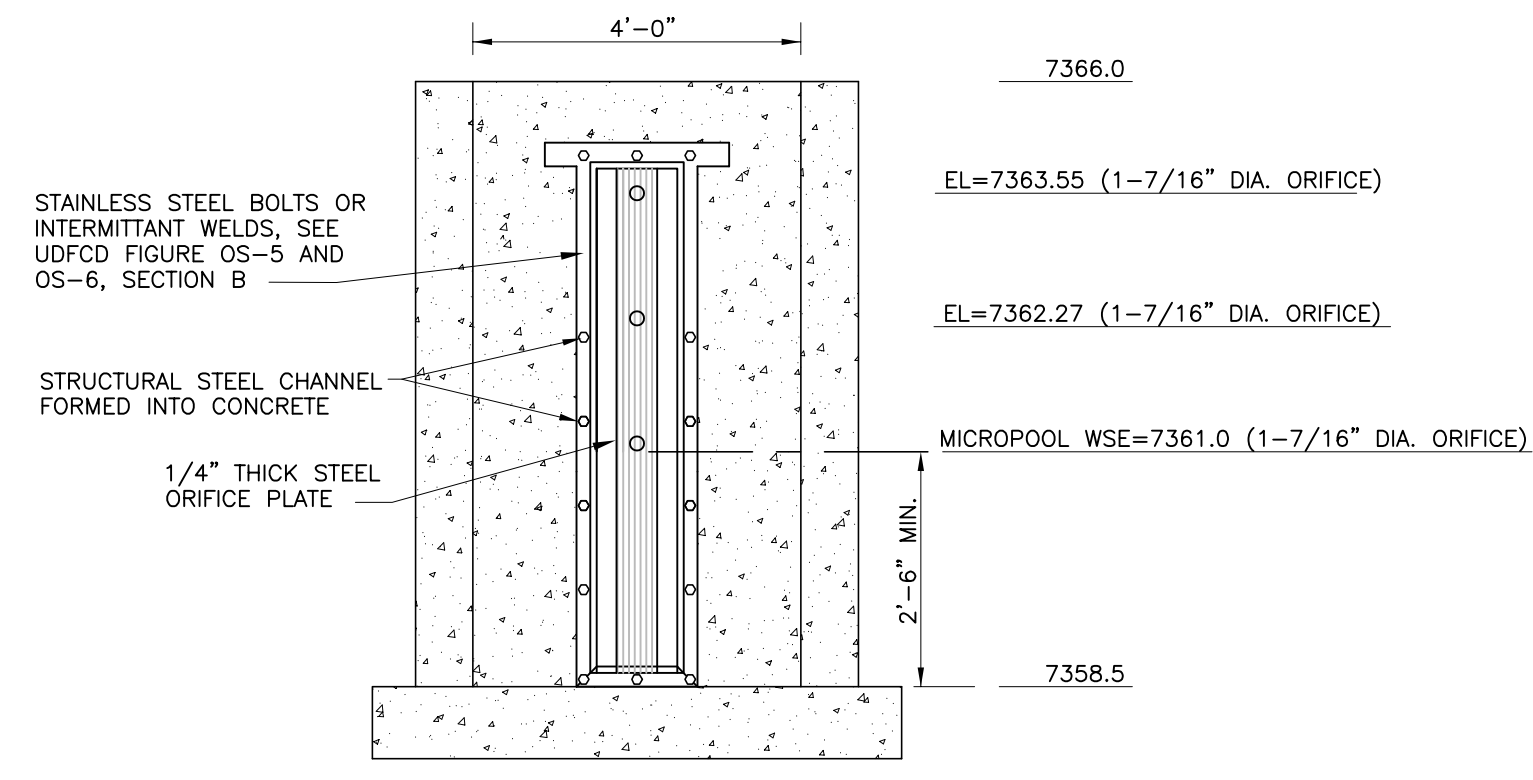
RIPRAP RUNDOWN (E)



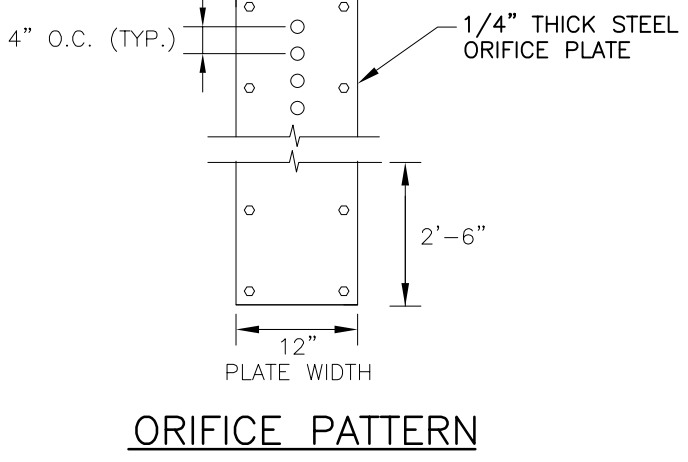
PLAN VIEW (D)



SECTION (C) DETENTION POND OUTLET STRUCTURE



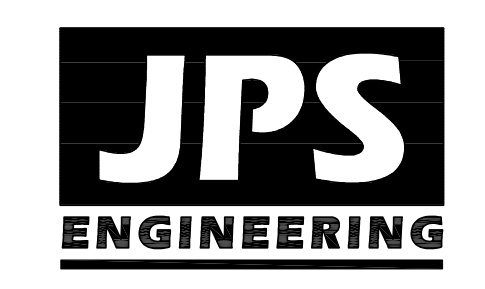
ELEVATION (D)



ORIFICE PATTERN (D)

- ORIFICE PLATE NOTES:**
1. MINIMIZE THE NUMBER OF COLUMNS.
  2. PROVIDE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE.
  3. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER.
- EURV AND WQCV TRASH RACKS:**
1. WELL-SCREEN TRASH RACKS (FOR CIRCULAR ORIFICES) SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
- OVERFLOW TRASH RACKS:**
1. ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS.
  2. TRASH RACKS SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL TRASH RACKS SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.

TYPICAL WQCV ORIFICE PLATE DETAIL (D)



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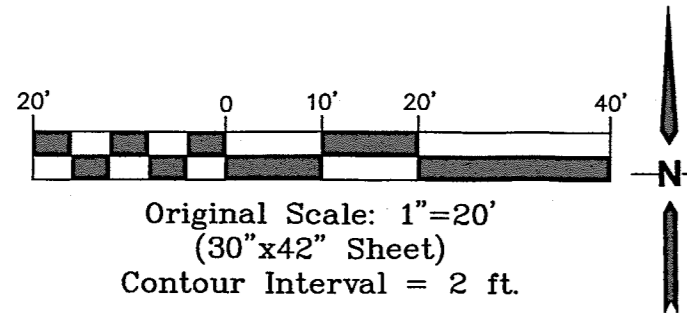
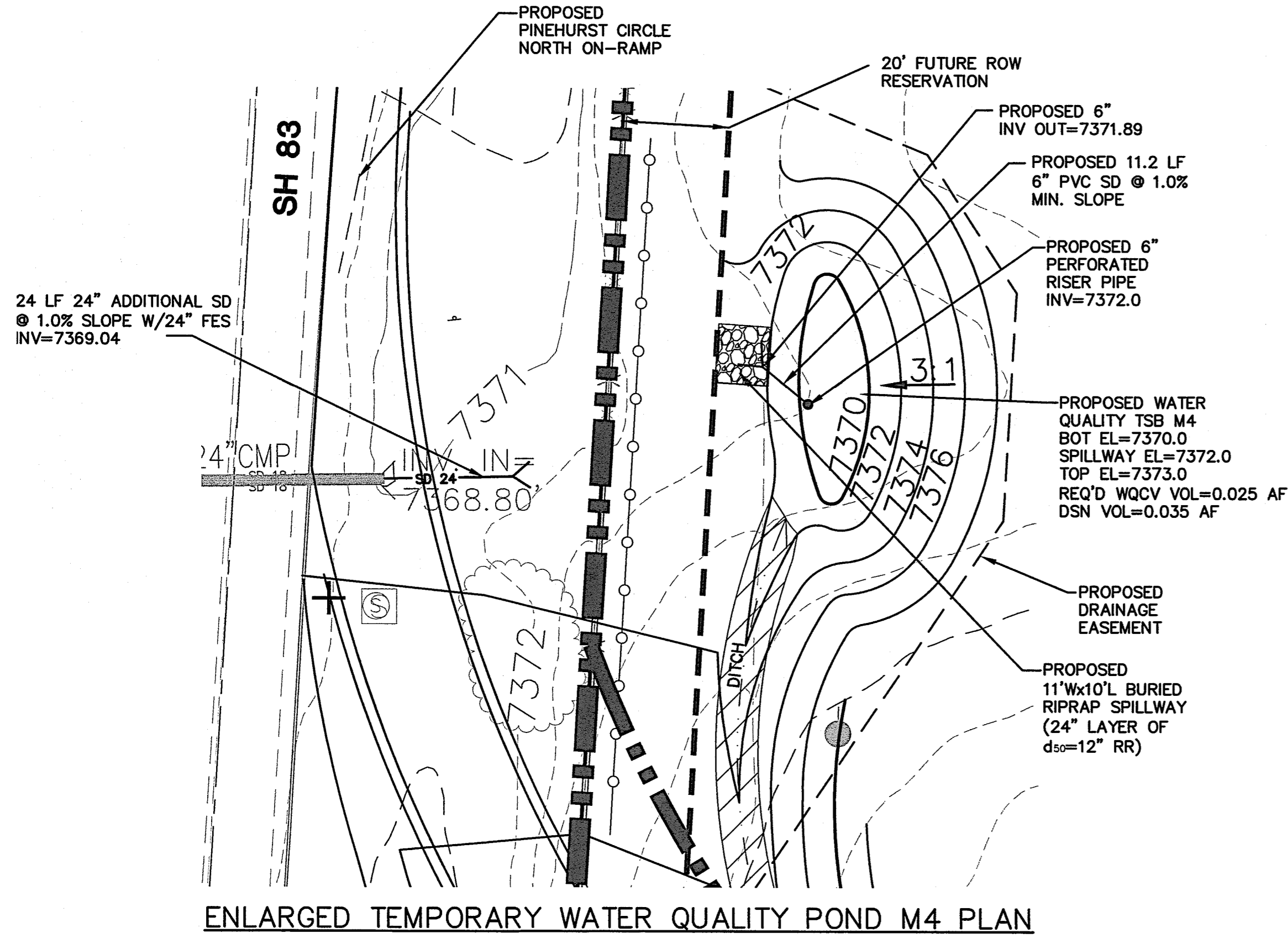
NO.	REVISION	BY	DATE
1	FOR PERMIT	JPS	4/17/19
2	COUNTY COMMENTS	JPS	4/29/19
3	COUNTY COMMENTS	JPS	6/20/19
4	COUNTY COMMENTS	JPS	7/11/19
5	AS-BUILT REVISIONS	JPS	7/20/22

**DETENTION POND C14 PLAN & DETAILS**  
 SCALE: AS SHOWN  
 NORTH  
 DATE: 12/20/18  
 DRAWN BY: BJJ  
 CHECKED BY: JPS  
 REVISED: 7/20/22

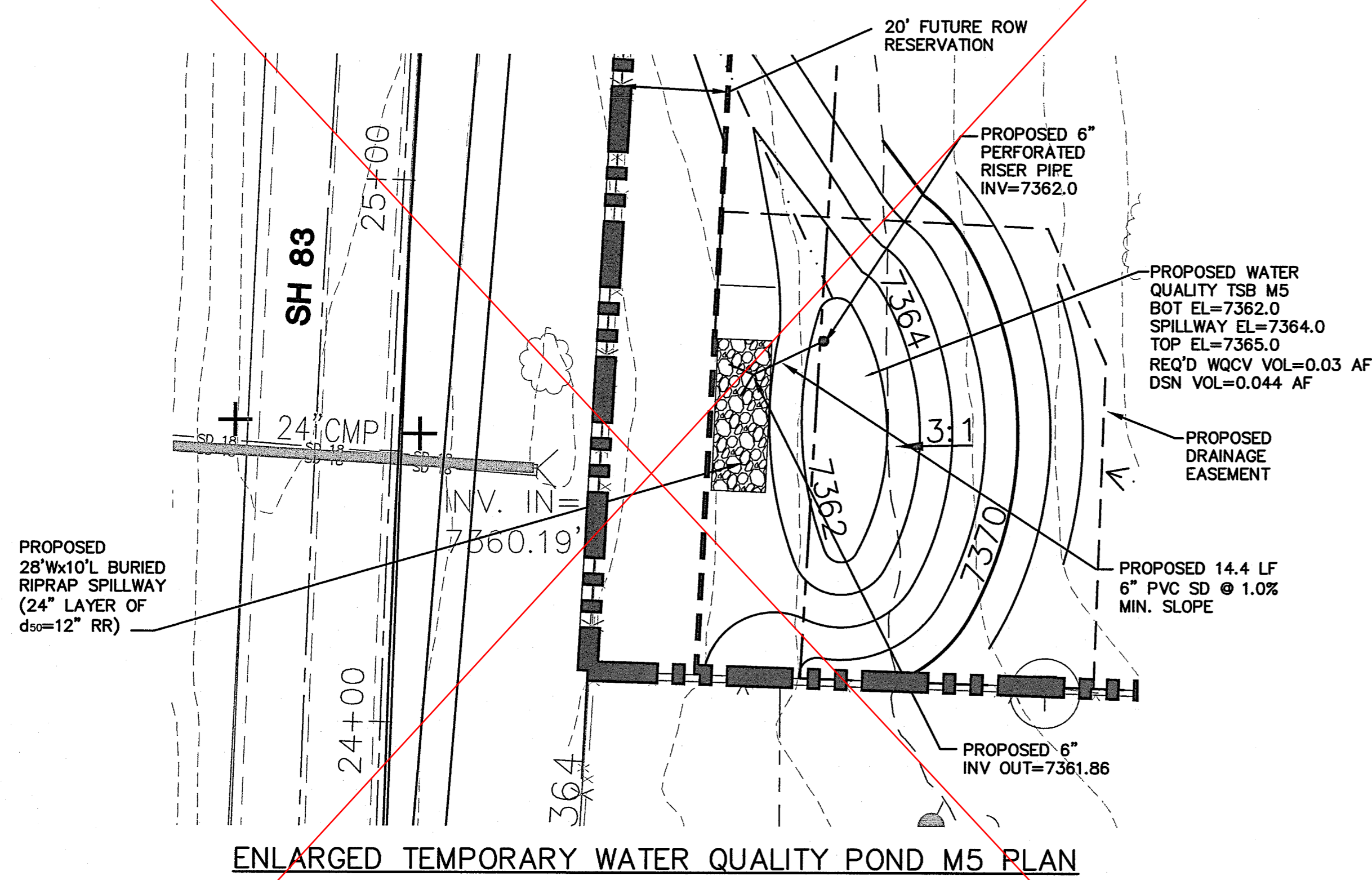
# ENGINEERING RECORD DRAWINGS

# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION

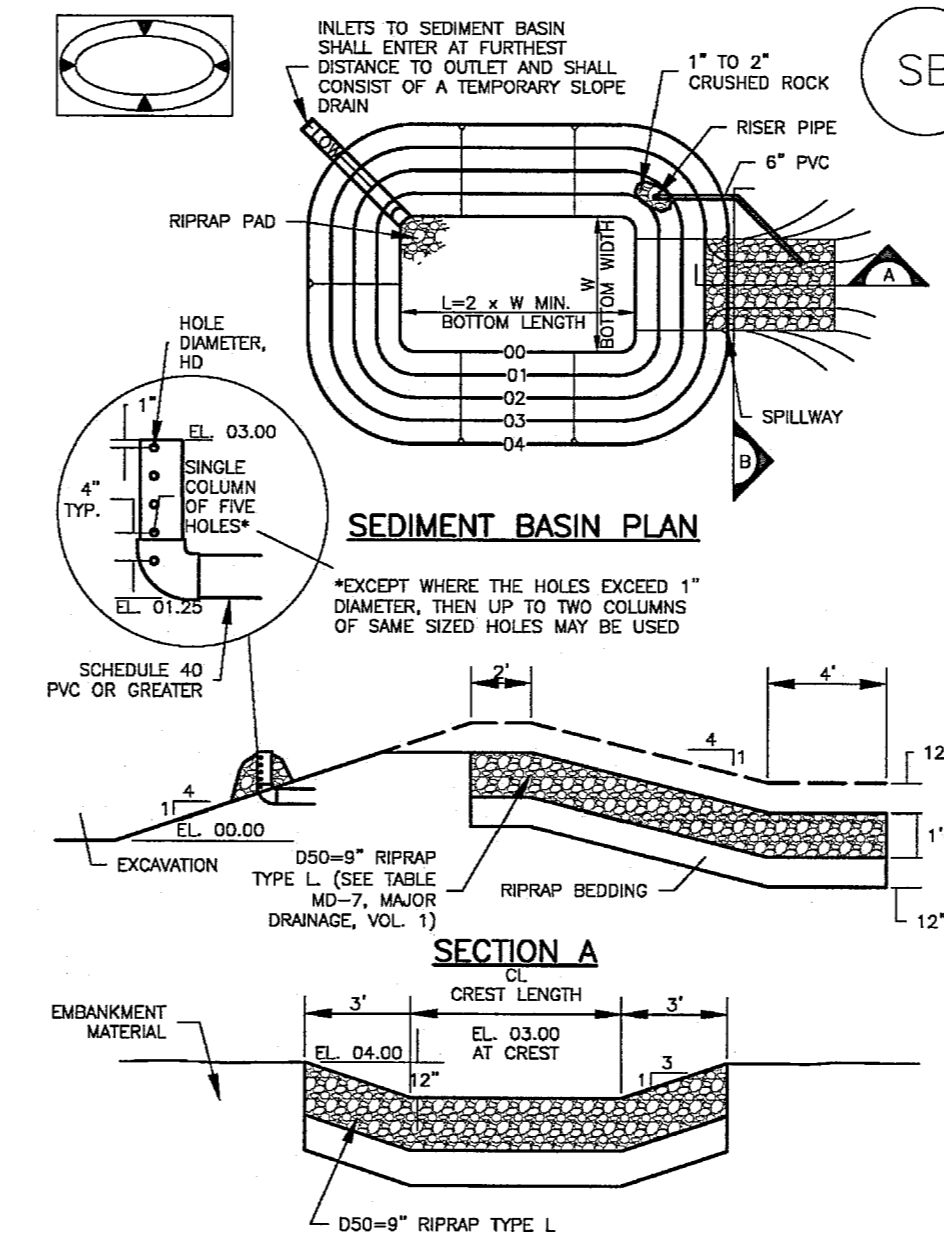


TEMPORARY SEDIMENT BASIN DESIGN DATA			
BASIN	DRAINAGE AREA (AC)	CL (FT)	HD (IN)
M4	3.2	5	1-1/2"
M5	23.2	22	1-3/16"



NOT CONSTRUCTED; PRESERVED EXISTING VEGETATED BUFFER IN THIS AREA

Sediment Basin (SB) SC-7



August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SB-5

SC-7 Sediment Basin (SB)

Upstream Drainage Area (rounded to nearest acre), (Ac)	Basin Bottom Width (W), (ft)	Basin Length (L), (ft)	Flow Diameter (D), (ft)
1	12 1/2	5	3/4
2	15	5	3/4
3	18	5	3/4
4	21	5	3/4
5	24	5	3/4
6	27	5	3/4
7	30	5	3/4
8	33	5	3/4
9	36	5	3/4
10	39	5	3/4
11	42	5	3/4
12	45	5	3/4
13	48	5	3/4
14	51	5	3/4
15	54	5	3/4
16	57	5	3/4
17	60	5	3/4
18	63	5	3/4
19	66	5	3/4
20	69	5	3/4
21	72	5	3/4
22	75	5	3/4
23	78	5	3/4
24	81	5	3/4
25	84	5	3/4
26	87	5	3/4
27	90	5	3/4
28	93	5	3/4
29	96	5	3/4
30	99	5	3/4
31	102	5	3/4
32	105	5	3/4
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92	285	5	3/4
93	288	5	3/4
94	291	5	3/4
95	294	5	3/4
96	297	5	3/4
97	300	5	3/4
98	303	5	3/4
99	306	5	3/4
100	309	5	3/4

SEDIMENT BASIN INSTALLATION NOTES

- SEE PLAN VIEW FOR LOCATION OF SEDIMENT BASIN. TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN). FOR STANDARD BASIN, BOTTOM WIDTH, N. CREST LENGTH, CL, AND HOLE DIAMETER, HD. FOR NONSTANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT, H. NUMBER OF COLLARS, N. HOLE DIAMETER, HD AND PIPE DIAMETER, D.
- FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
- SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON BASINS AS A STORMWATER CONTROL.
- EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF ROCKS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.
- EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
- PIPE SCH 40 OR GREATER SHALL BE USED.
- THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASINS FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASINS THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

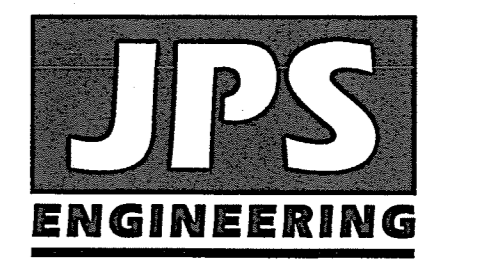
SB-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

Sediment Basin (SB) SC-7

SEDIMENT BASIN MAINTENANCE NOTES

- INSPECT BASINS EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BASINS SHOULD BE PROMPTLY INITIATED AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
  - PREVENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BASINS IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BASINS HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EFFECTIVENESS. TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E. TWO FEET BELOW THE SPILLWAY CREST).
  - SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS ACCEPTED BY THE LOCAL JURISDICTION.
  - WHEN SEDIMENT BASINS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDS AND MULCH OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.
- (DETAILS ADAPTED FROM BOULDER COUNTY, COLORADO)
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM LISTED STANDARDS DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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TEMPORARY WATER QUALITY POND DETAILS  
SCALE: AS SHOWN

NORTH DATE: 4/17/19  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 7/09/19

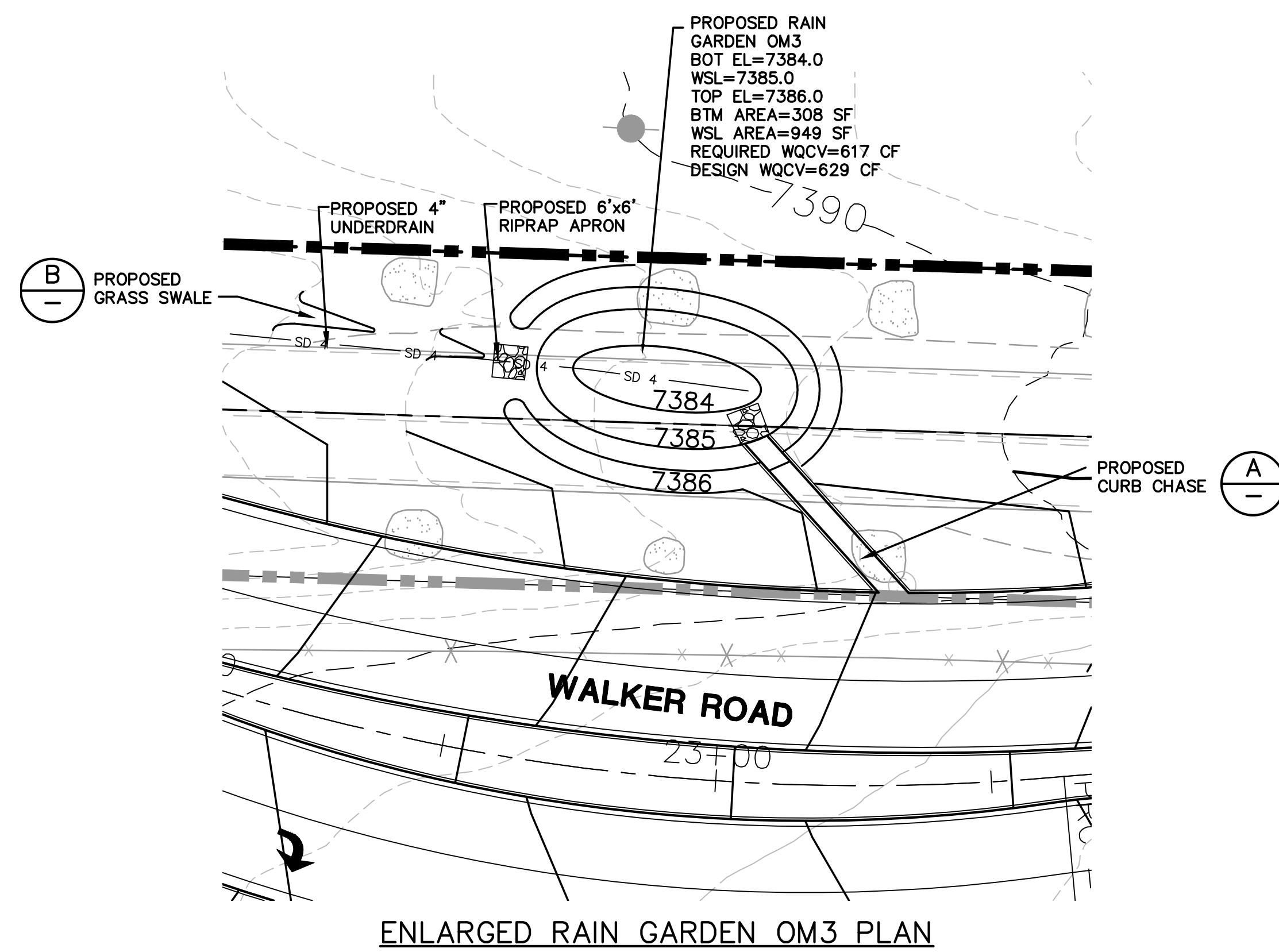
NO.	REVISION	BY	DATE
1	FOR PERMIT	JPS	4/17/19
2	COUNTY COMMENTS	JPS	4/29/19
3	COUNTY COMMENTS	JPS	6/20/19
4	COUNTY COMMENTS	JPS	7/09/19

PCD PROJECT NO. PPR-19-009

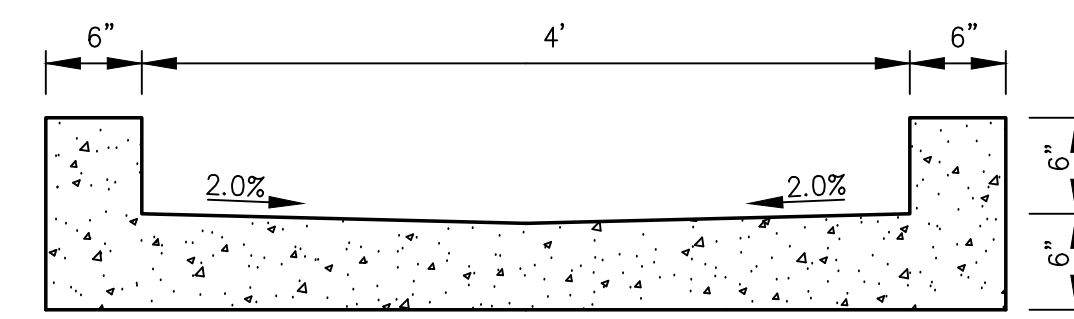
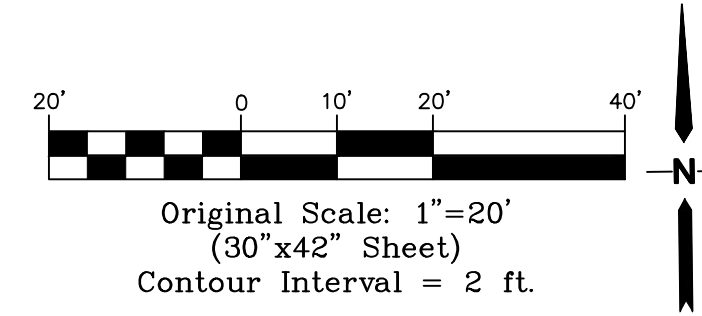
EPC 7/30/19 C3.3

# MONUMENT ACADEMY HIGH SCHOOL

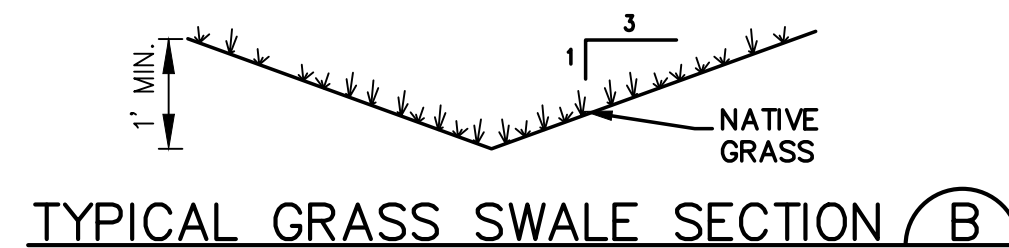
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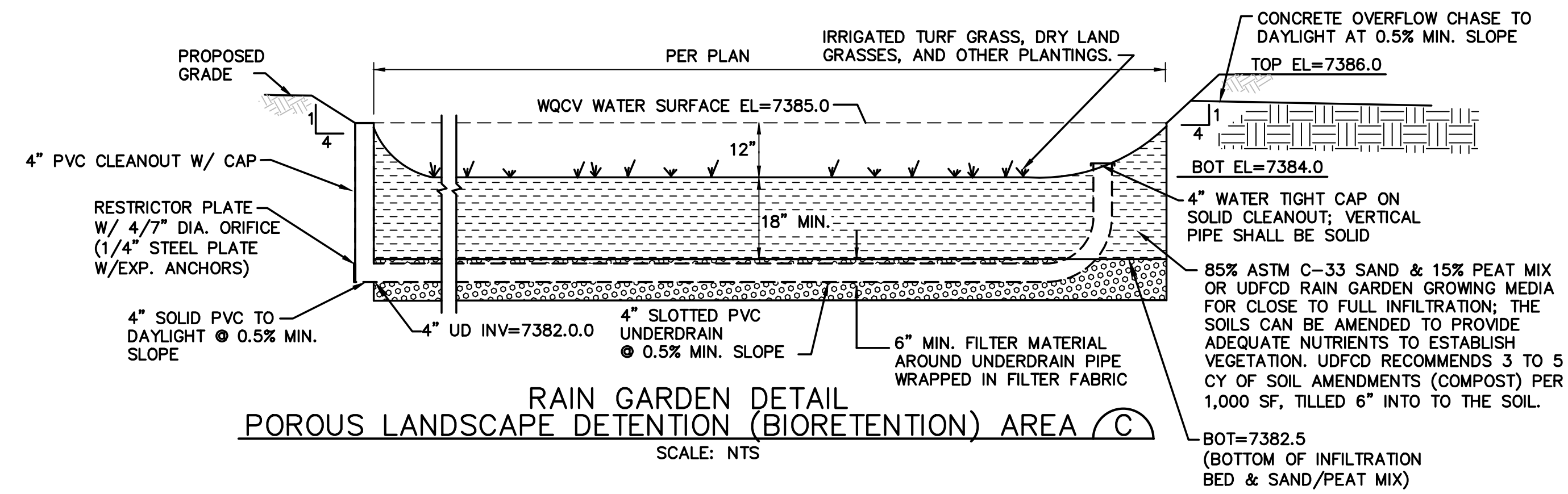
ENLARGED RAIN GARDEN OM3 PLAN



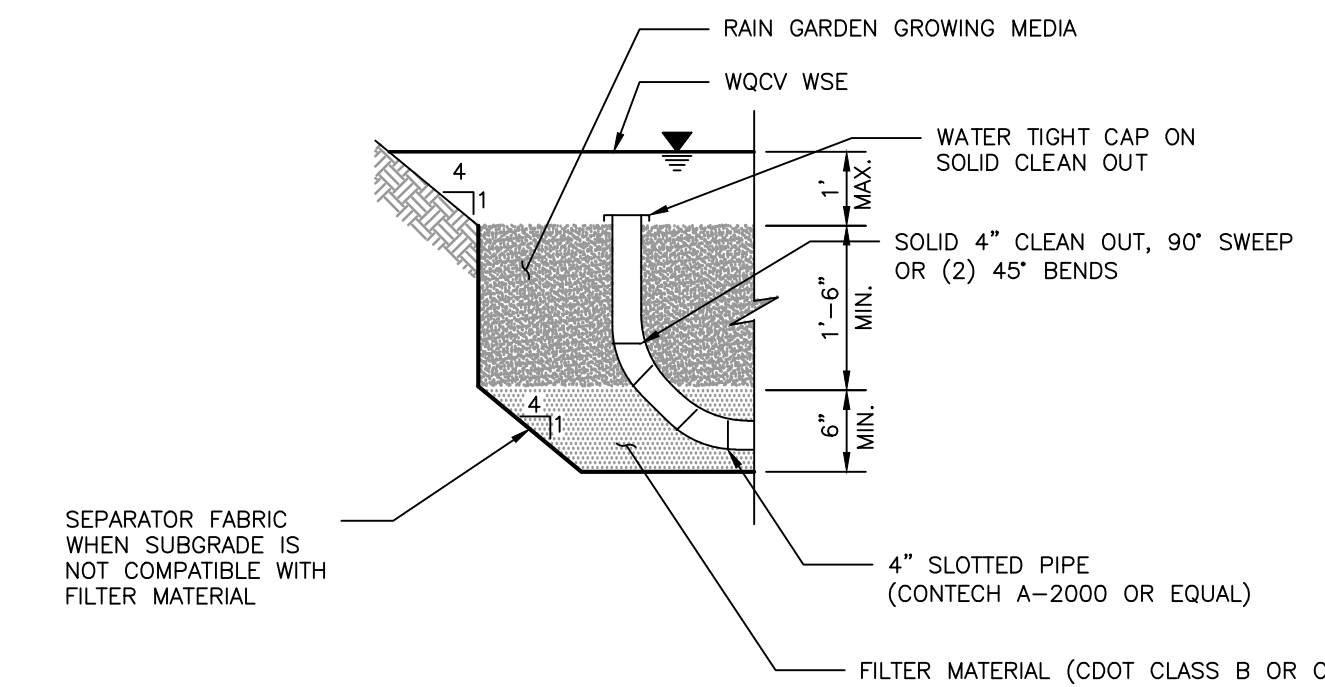
CURB CHASE SECTION (A)  
SCALE: 1"=1' H&V



TYPICAL GRASS SWALE SECTION (B)

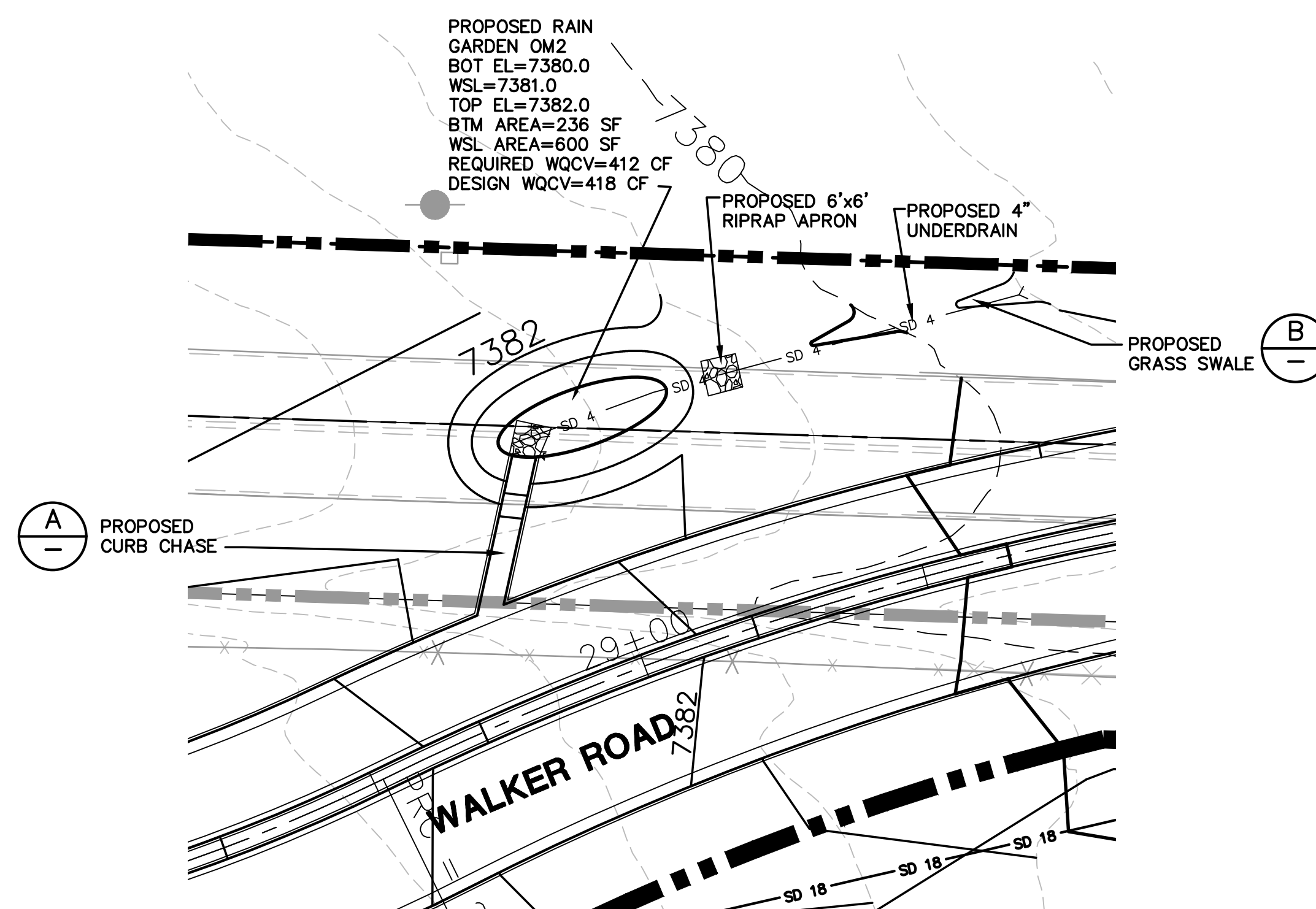


RAIN GARDEN DETAIL  
POROUS LANDSCAPE DETENTION (BIORETENTION) AREA (C)  
SCALE: NTS

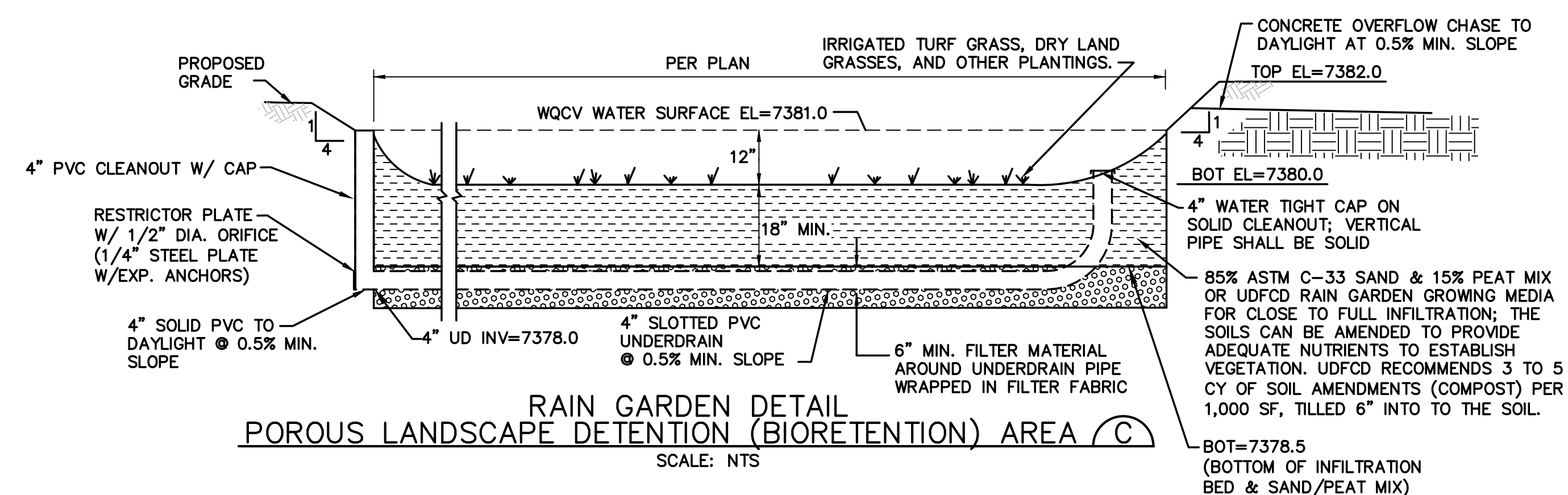
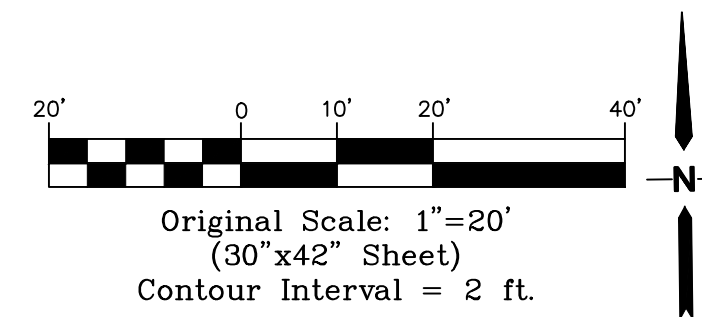


PARTIAL INFILTRATION SECTION (D)  
NTS

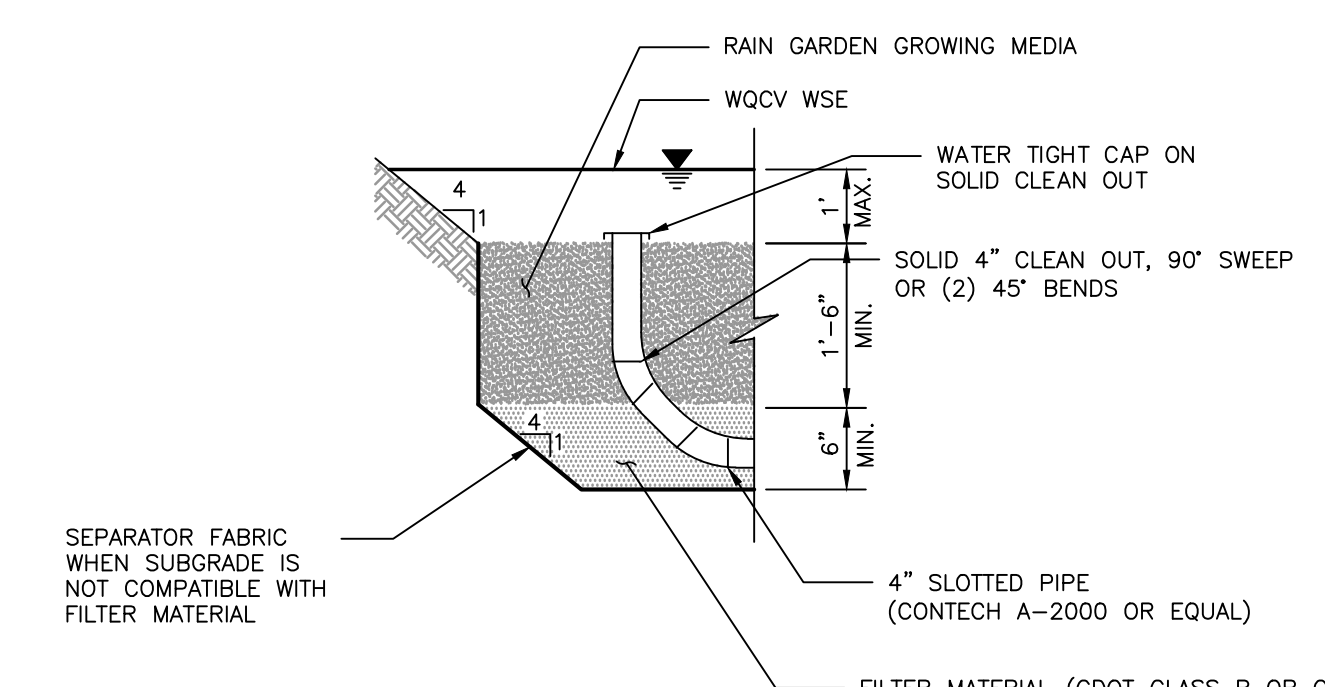
RAIN GARDEN OM3 DETAILS



ENLARGED RAIN GARDEN OM2 PLAN



RAIN GARDEN DETAIL  
POROUS LANDSCAPE DETENTION (BIORETENTION) AREA (C)  
SCALE: NTS

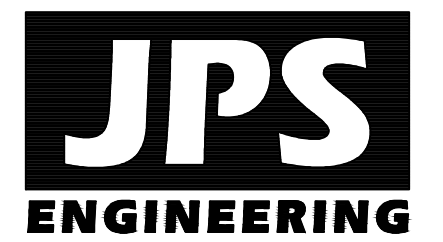


PARTIAL INFILTRATION SECTION (D)  
NTS

RAIN GARDEN OM2 DETAILS

NO.	REVISION	BY	DATE
1	FOR PERMIT	JPS	4/17/19
2	COUNTY COMMENTS	JPS	4/29/19
3	COUNTY COMMENTS	JPS	6/20/19
4	COUNTY COMMENTS	JPS	7/09/19
5	COUNTY COMMENTS	JPS	4/08/20

PCD PROJECT NO. CDR-20-001



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RAIN GARDEN DETAILS

SCALE: AS SHOWN

NORTH  
DATE: 4/17/19  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 5/05/20

EPC 5/27/2020

C3.4



**STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS:**

REVISED 7/02/19

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- 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.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
- FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT AFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENEED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
- DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
- EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY KUMAR & ASSOC., DATED 2/25/19 AND SHALL BE CONSIDERED A PART OF THESE PLANS. ROAD CONSTRUCTION SHALL FOLLOW COUNTY ECM STANDARDS & DEVELOPER SHALL PROVIDE A SUPPLEMENTAL GEOTECHNICAL REPORT FOR PAVEMENT DESIGN PRIOR TO PAVING.
- AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SMWP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT  
WATER QUALITY CONTROL DIVISION  
WQCD - PERMITS  
4300 CHERRY CREEK DRIVE SOUTH  
DENVER, CO 80246-1530  
ATTN: PERMITS UNIT

**SEDIMENT CONTROL MAINTENANCE PROGRAM:**

	FREQUENCY
PERIODIC SITE INSPECTIONS	BI-WEEKLY
RE-VEGETATION OF EXPOSED SOILS	WITHIN 21 DAYS OF GRADING
SEDIMENT REMOVAL FROM BMP'S	MONTHLY
REMOVAL OF BMP'S	AFTER STABILIZATION ACHIEVED

1 AND AFTER ANY PRECIPITATION OR SNOW MELT EVENT THAT CAUSES SURFACE EROSION.

2 ACCUMULATED SEDIMENT AND DEBRIS SHALL BE REMOVED WHEN THE SEDIMENT LEVEL REACHES ONE HALF THE HEIGHT OF THE BMP OR AT ANY TIME THAT SEDIMENT OR DEBRIS ADVERSELY IMPACTS THE FUNCTION OF THE BMP.

**ESTIMATED TIME SCHEDULE:**

INSTALL BMP'S	MAY, 2020
SITE GRADING	MAY, 2020
SEEDING & MULCHING	AUGUST, 2020
STABILIZATION	SEPTEMBER, 2021

RECEIVING WATERS: WEST CHERRY CREEK

**EXISTING VEGETATION:**

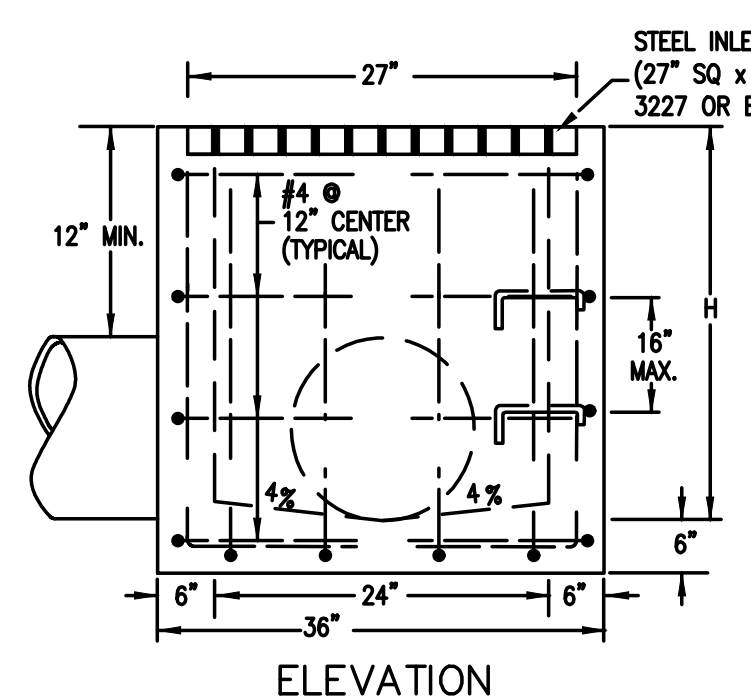
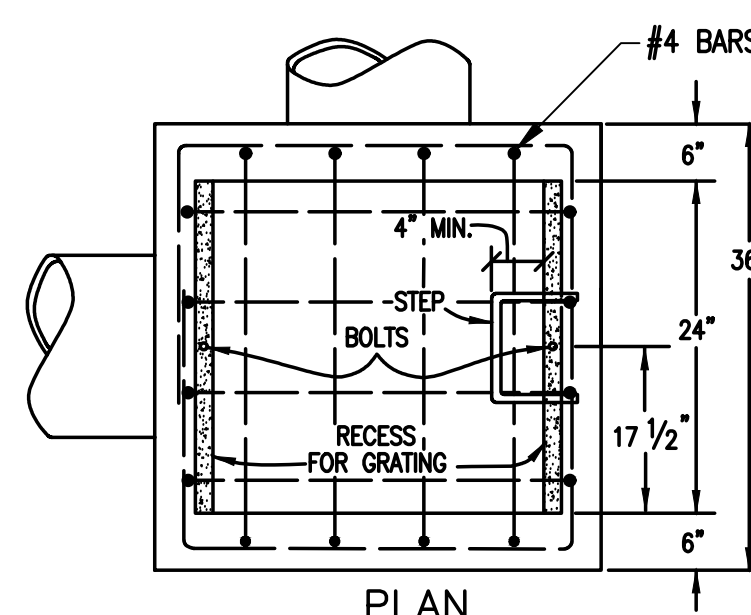
NATIVE GRASSES (APPROXIMATELY 70 PERCENT COVERAGE)

**SEEDING MIX:**

GRASS	VARIETY	AMOUNT IN PLS LBS. PER ACRE
CRESTED WHEAT GRASS	EPHRAIM OR HYCREST	4.0 LBS.
PERENNIAL RYE	LINN	2.0 LBS.
WESTERN WHEATGRASS	SARTON	3.0 LBS.
SMOOTH BROME GRASS	LINCOLN OR MANCHAR	3.0 LBS.
SIDCOATS GRAMA	EPHRAIM	2.5 LBS.
TOTAL:		16.5 LBS.

SEEDING & FERTILIZER APPLICATION: DRILL SEED OR HYDRO-SEED PER CDOT SPEC. SECTION 212.

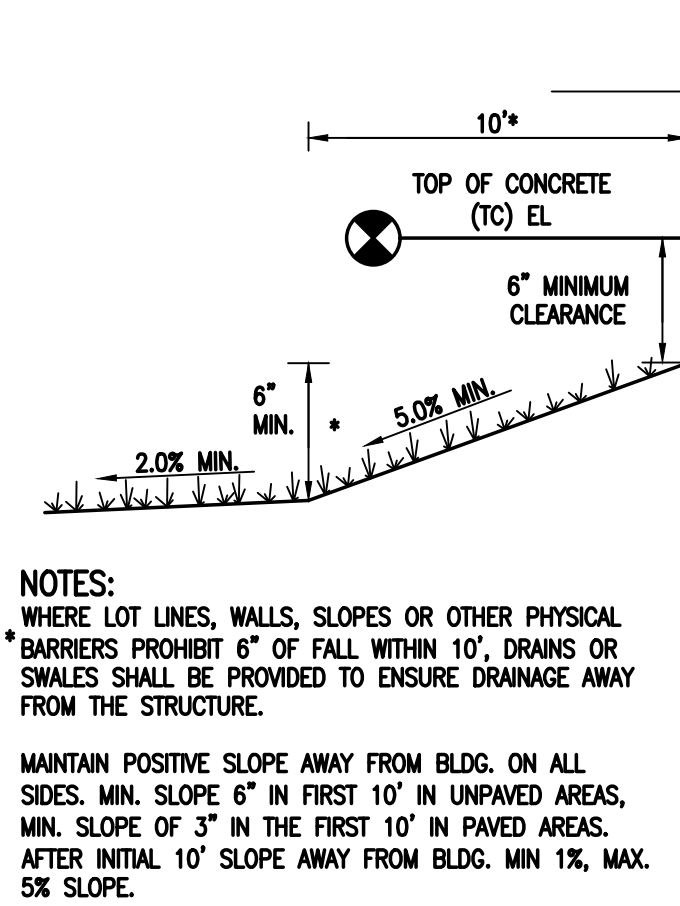
MULCHING APPLICATION: CONFORM TO CDOT SPEC-SECTION 213.



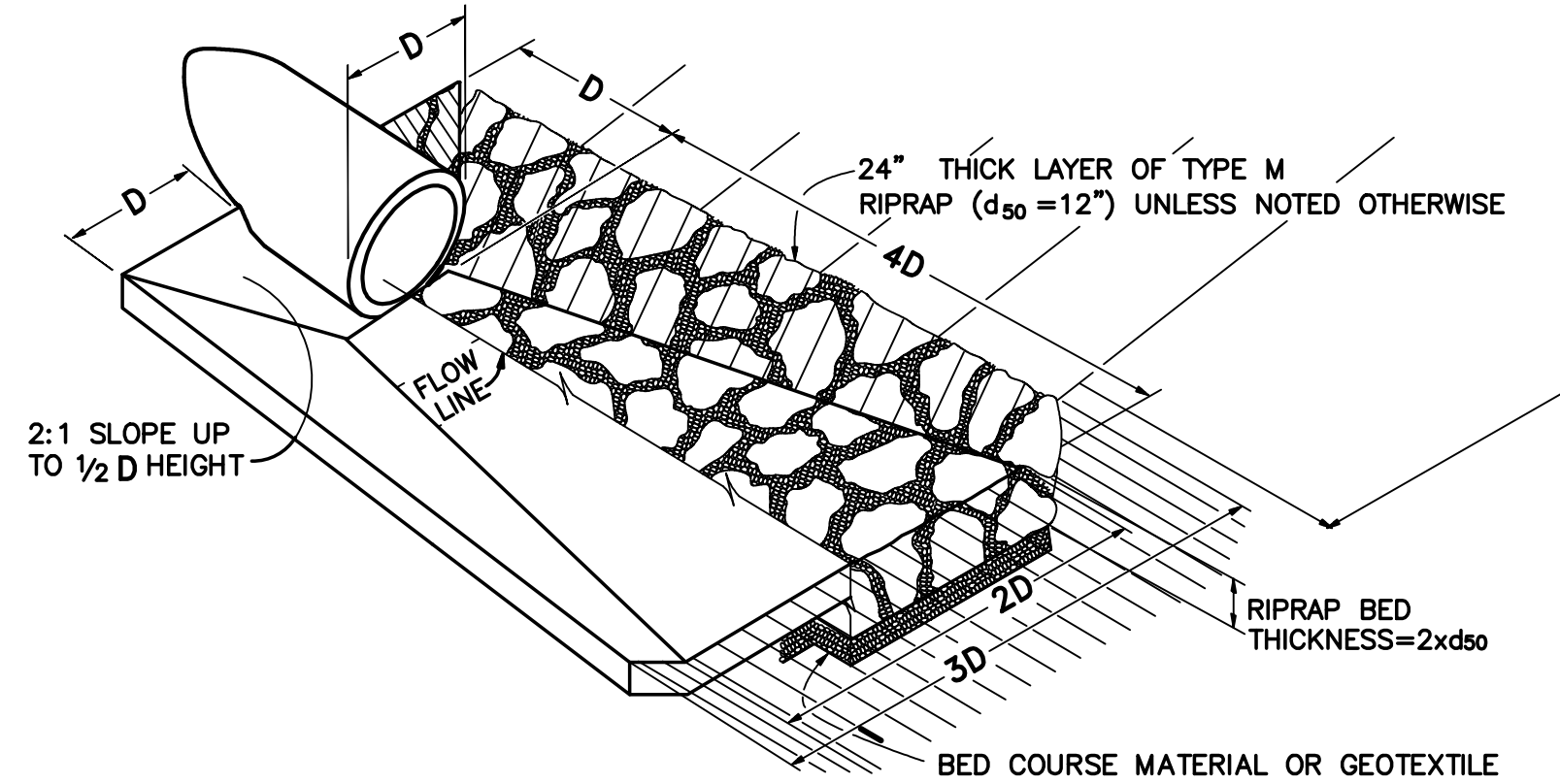
TYPICAL GRATED STORM INLET DETAIL (A)  
SCALE: NTS

**GENERAL NOTES**

- CONCRETE SHALL BE CDOT CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
- REINFORCING BARS SHALL BE EPOXY COATED AND DEFORMED, AND SHALL HAVE A MINIMUM 2 IN. CLEARANCE.
- STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH CDOT 712.06.
- STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" EXCEEDS 3 FT.-6 IN. AND SHALL BE IN ACCORDANCE WITH AASHTO M 199.
- SEE CDOT SHEET M-604-11, INLET, TYPE D, FOR REINFORCEMENT AROUND THE PIPE OPENING.



TYPICAL BUILDING DRAINAGE DETAIL (B)  
SCALE: NTS



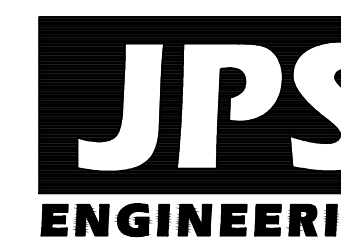
NOTE: TYPICAL RIPRAP APRON DIMENSIONS SHALL BE 12'Lx9'Wx2.0'D UNLESS NOTED OTHERWISE

TYPICAL RIPRAP APRON/  
CULVERT OUTLET PAVING (C)  
NOT TO SCALE

NO.	REVISION	BY	DATE
1	COUNTY COMMENTS	JPS	4/29/19
2	COUNTY COMMENTS	JPS	6/20/19
3	COUNTY COMMENTS	JPS	7/23/19
4	COUNTY COMMENTS	JPS	4/08/20
5	COUNTY COMMENTS	JPS	5/05/20

**MONUMENT  
ACADEMY  
HIGH SCHOOL**

**FOR CONSTRUCTION**



19 E. Willamette Ave.  
Colorado Springs, CO  
80903

PH: 719-477-9429  
FAX: 719-471-0766  
www.jpsegr.com

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CRP ARCHITECTS AIA  
100 E. St. Vrain, Suite 300  
Colorado Springs, Colorado 80903

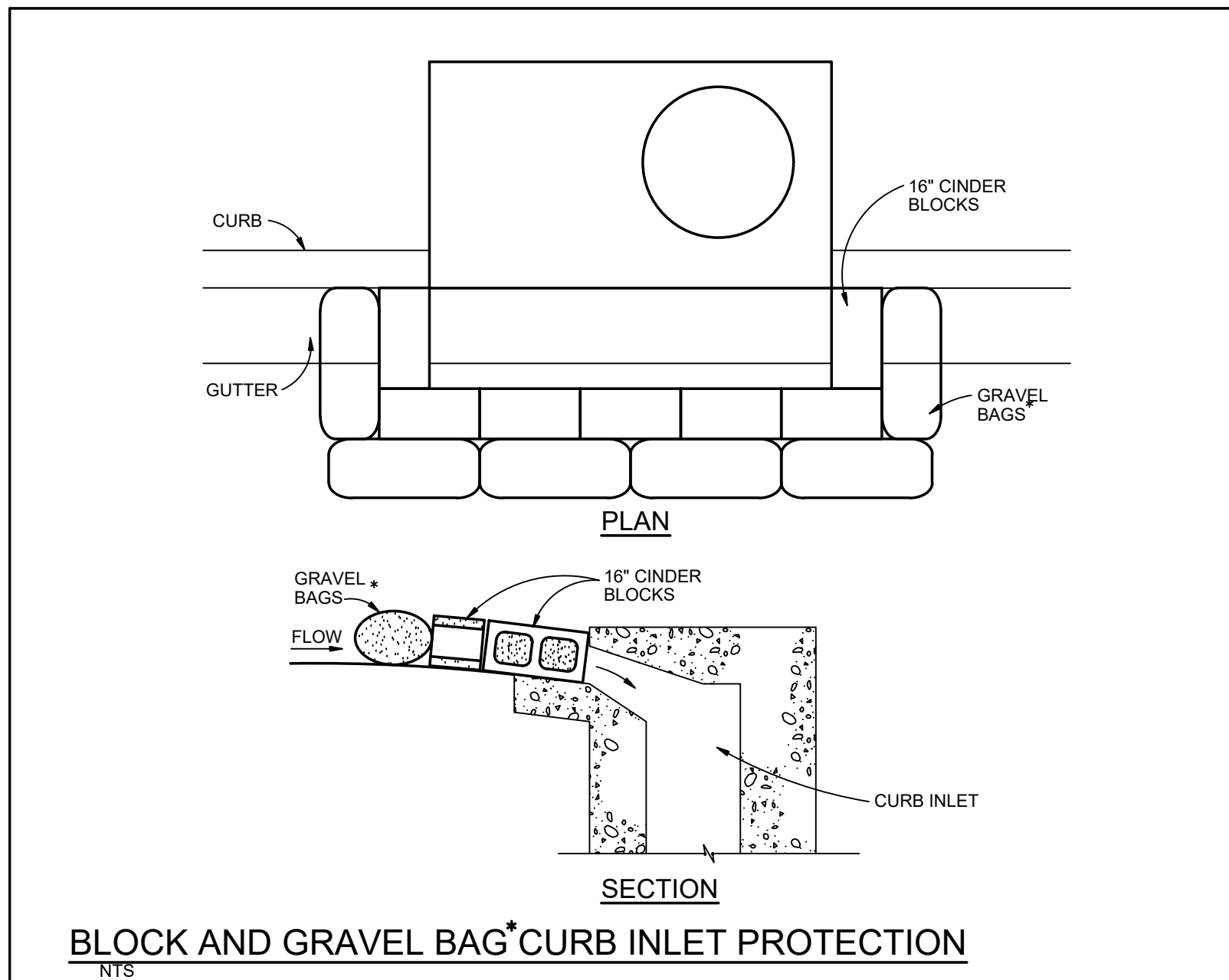
**SITE GRADING & EROSION  
CONTROL NOTES &  
DETAILS**

NORTH  
DATE: 12/20/18  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 5/05/20

PCD PROJECT NO. CDR-20-001

EPC 5/27/2020

C4.1A

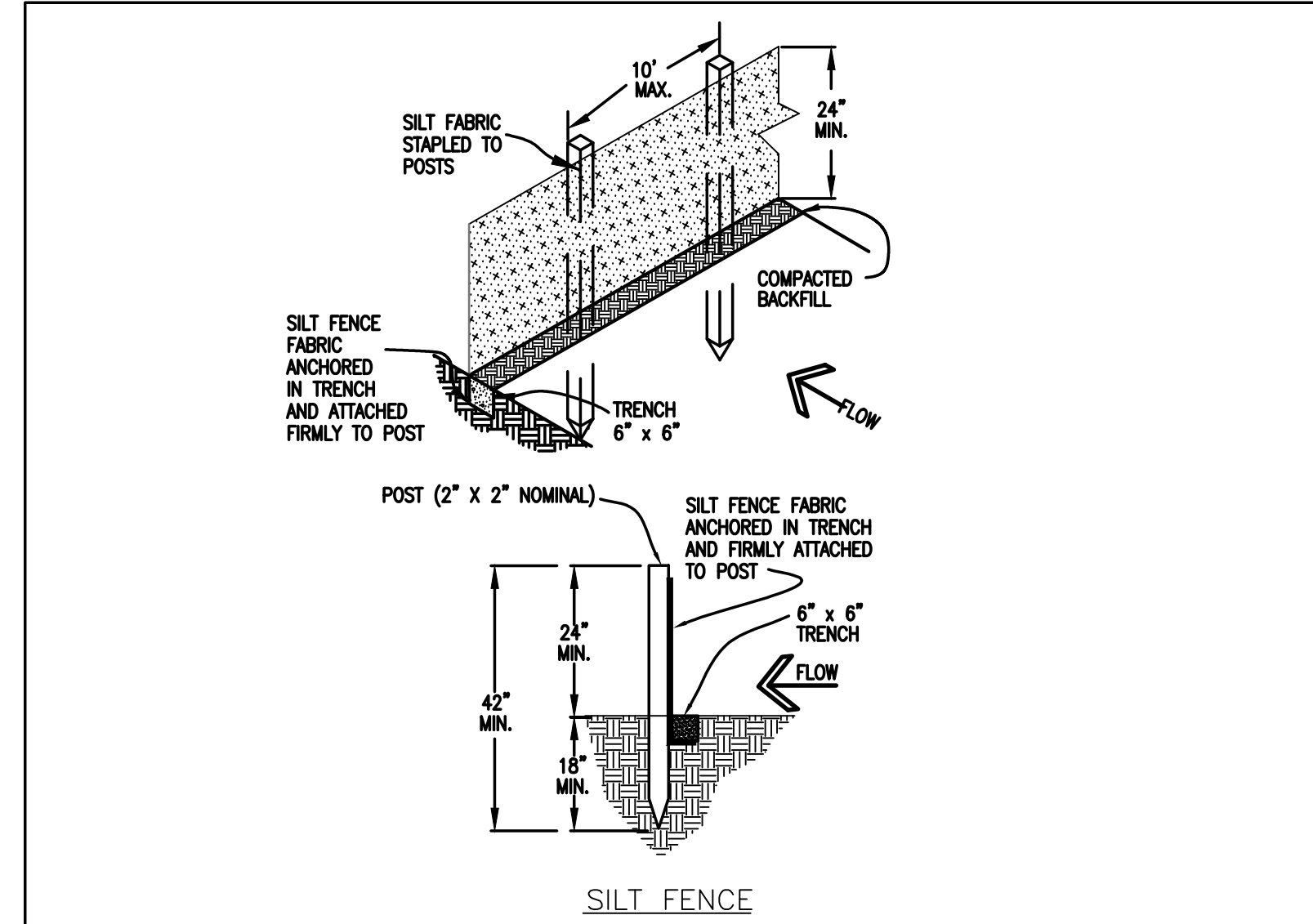


BLOCK AND GRAVEL BAG CURB INLET PROTECTION

**BLOCK AND GRAVEL BAG CURB INLET PROTECTION NOTES**

- INSTALLATION REQUIREMENTS**
1. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF INLET.
  2. CONCRETE BLOCKS ARE TO BE LAID AROUND THE INLET IN A SINGLE ROW ON THEIR SIDES, ABUTTING ONE ANOTHER WITH THE OPEN ENDS OF THE BLOCK FACING OUTWARD.
  3. GRAVEL BAGS ARE TO BE PLACED AROUND THE CONCRETE BLOCKS CLOSELY ABUTTING ONE ANOTHER SO THERE ARE NO GAPS.
  4. GRAVEL BAGS ARE TO CONTAIN WASHED SAND OR GRAVEL APPROXIMATELY 3/4 INCH IN DIAMETER.
  5. BAGS ARE TO BE MADE OF 1/4" INCH WIRE MESH (USED WITH GRAVEL ONLY) OR GEOTEXTILE.
- MAINTENANCE REQUIREMENTS**
1. CONTRACTOR SHALL INSPECT INLET PROTECTION IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL.
  2. DAMAGED OR INEFFECTIVE INLET PROTECTION SHALL PROMPTLY BE REPAIRED OR REPLACED.
  3. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATED TO APPROXIMATELY 1/2 THE DESIGN DEPTH OF THE TRAP.
  4. INLET PROTECTION SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED WITHIN THE DRAINAGE AREA AS APPROVED BY THE CITY.
- \* AN ALTERNATE 3/4" TO 1" GRAVEL FILTER OVER A WIRE SCREEN MAY BE USED IN PLACE OF GRAVEL BAGS. THE WIRE MESH SHALL EXTEND ABOVE THE TOP OF THE CONCRETE BLOCKS AND THE GRAVEL PLACED OVER THE WIRE SCREEN TO THE TOP OF THE CONCRETE BLOCKS.

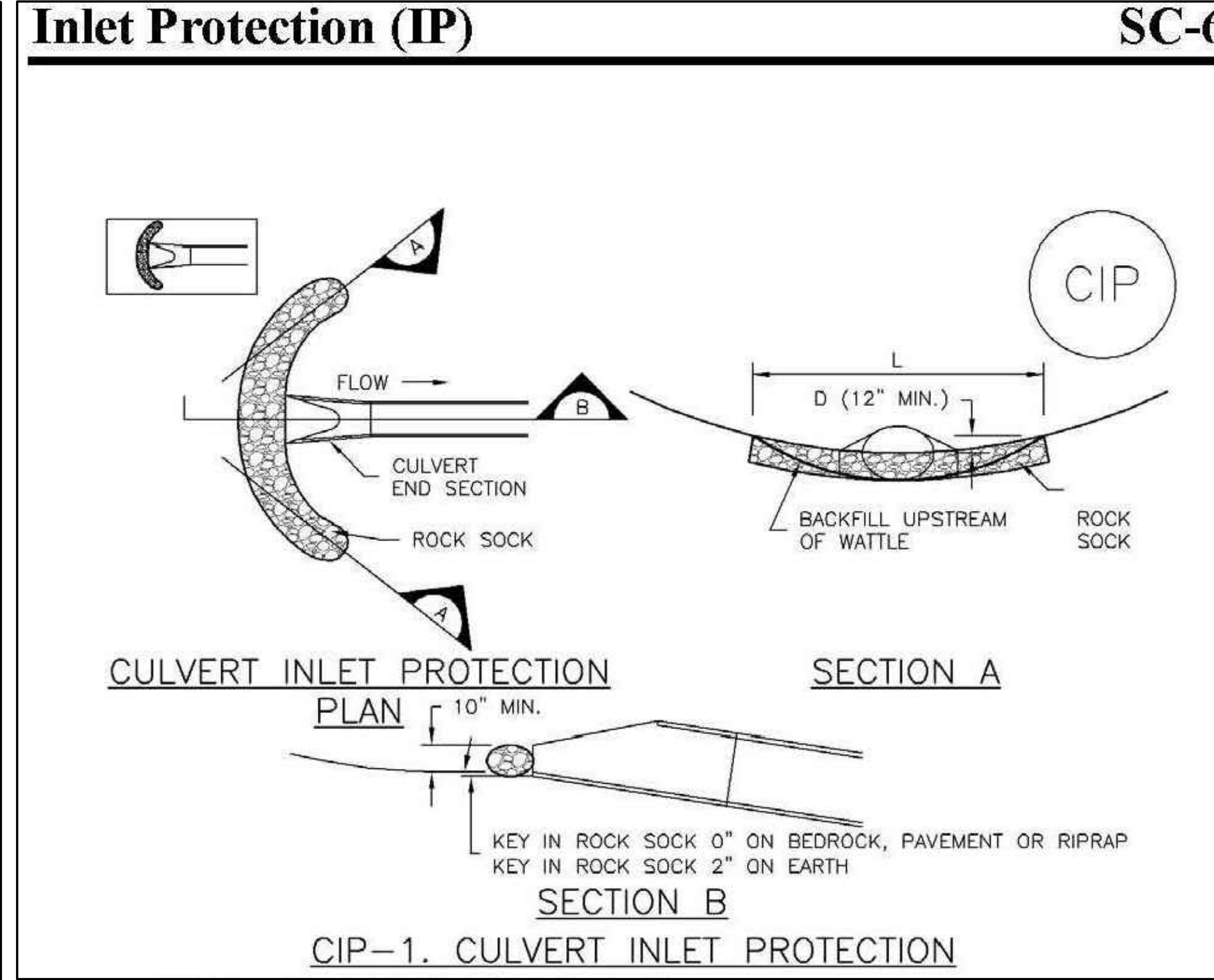
City of Colorado Springs Stormwater Quality Figure IP-3 Block & Gravel Bag Curb Inlet Protection Construction Detail and Maintenance Requirements



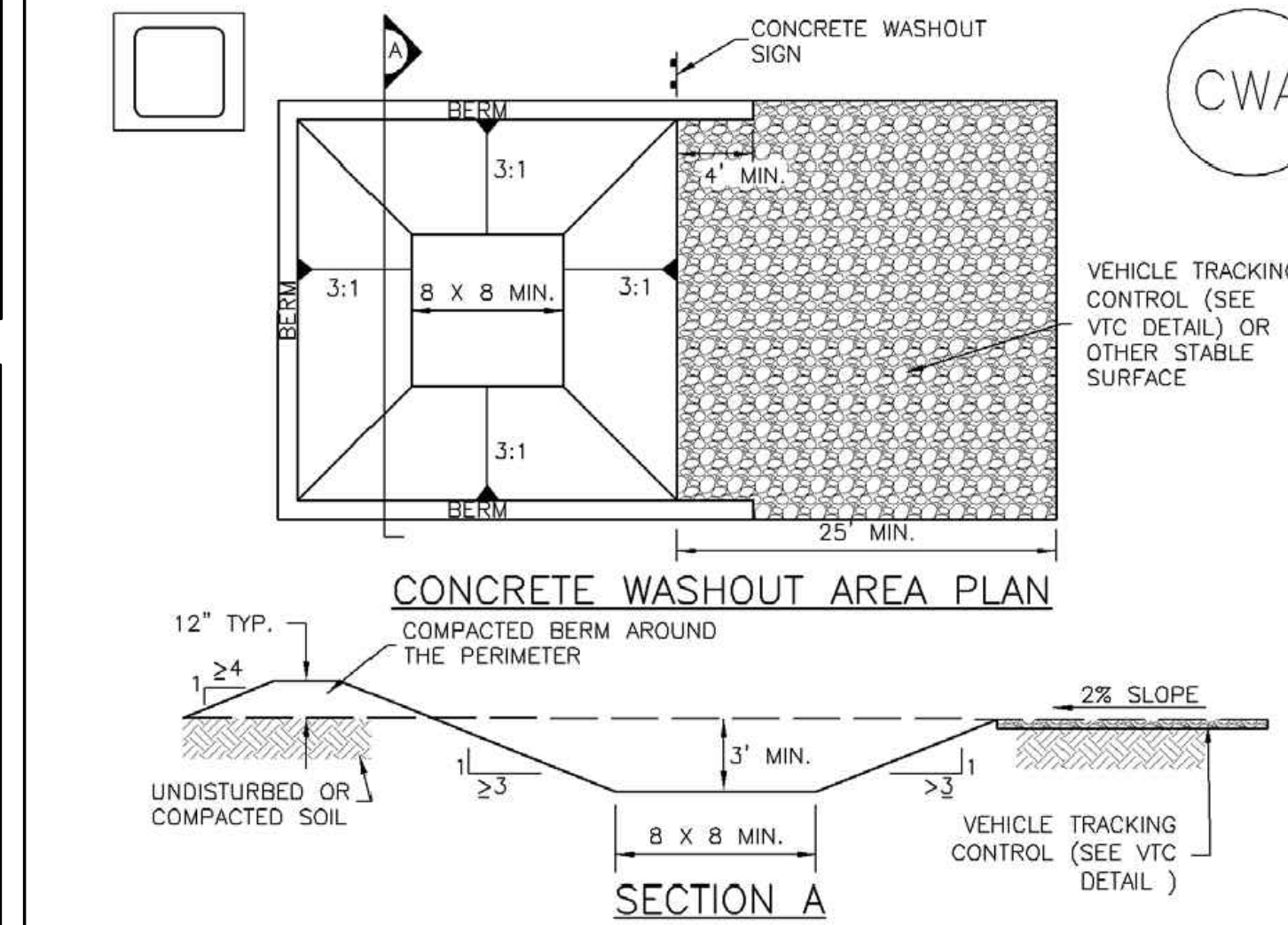
**SILT FENCE NOTES**

- INSTALLATION REQUIREMENTS**
1. SILT FENCES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
  2. WHEN JOINTS ARE NECESSARY, SILT FENCE GEOTEXTILE SHALL BE SPICED TOGETHER ONLY AT SUPPORT POST AND SECURELY SEALED.
  3. METAL POSTS SHALL BE "STUDDED TEE" OR "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD POSTS SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.
  4. THE FILTER MATERIAL SHALL BE FASTENED SECURELY TO METAL OR WOOD POSTS USING WIRE TIES, OR TO WOOD POSTS WITH 3/4" LONG #8 HEAVY-DUTY STAPLES. THE SILT FENCE GEOTEXTILE SHALL NOT BE STAPLED TO EXISTING TREES.
  5. WHILE NOT REQUIRED, WIRE MESH FENCE MAY BE USED TO SUPPORT THE GEOTEXTILE. WIRE FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 3/4" LONG. TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 6" AND SHALL NOT EXTEND MORE THAN 3" ABOVE THE ORIGINAL GROUND SURFACE.
  6. ALONG THE TOE OF FILLS, INSTALL THE SILT FENCE ALONG A LEVEL CONTOUR AND PROVIDE AN AREA BEHIND THE FENCE FOR RUNOFF TO POND AND SEDIMENT TO SETTLE. A MINIMUM DISTANCE OF 5 FEET FROM THE TOE OF THE FILL IS RECOMMENDED.
  7. THE HEIGHT OF THE SILT FENCE FROM THE GROUND SURFACE SHALL BE MINIMUM OF 24 INCHES AND SHALL NOT EXCEED 36 INCHES. HIGHER FENCES MAY INPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.
- MAINTENANCE REQUIREMENTS**
1. CONTRACTOR SHALL INSPECT SILT FENCES IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING 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 GEOTEXTILE HEIGHT.
  3. SILT FENCES SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE CITY.

City of Colorado Springs Stormwater Quality Figure SF-2 Silt Fence Construction Detail and Maintenance Requirements



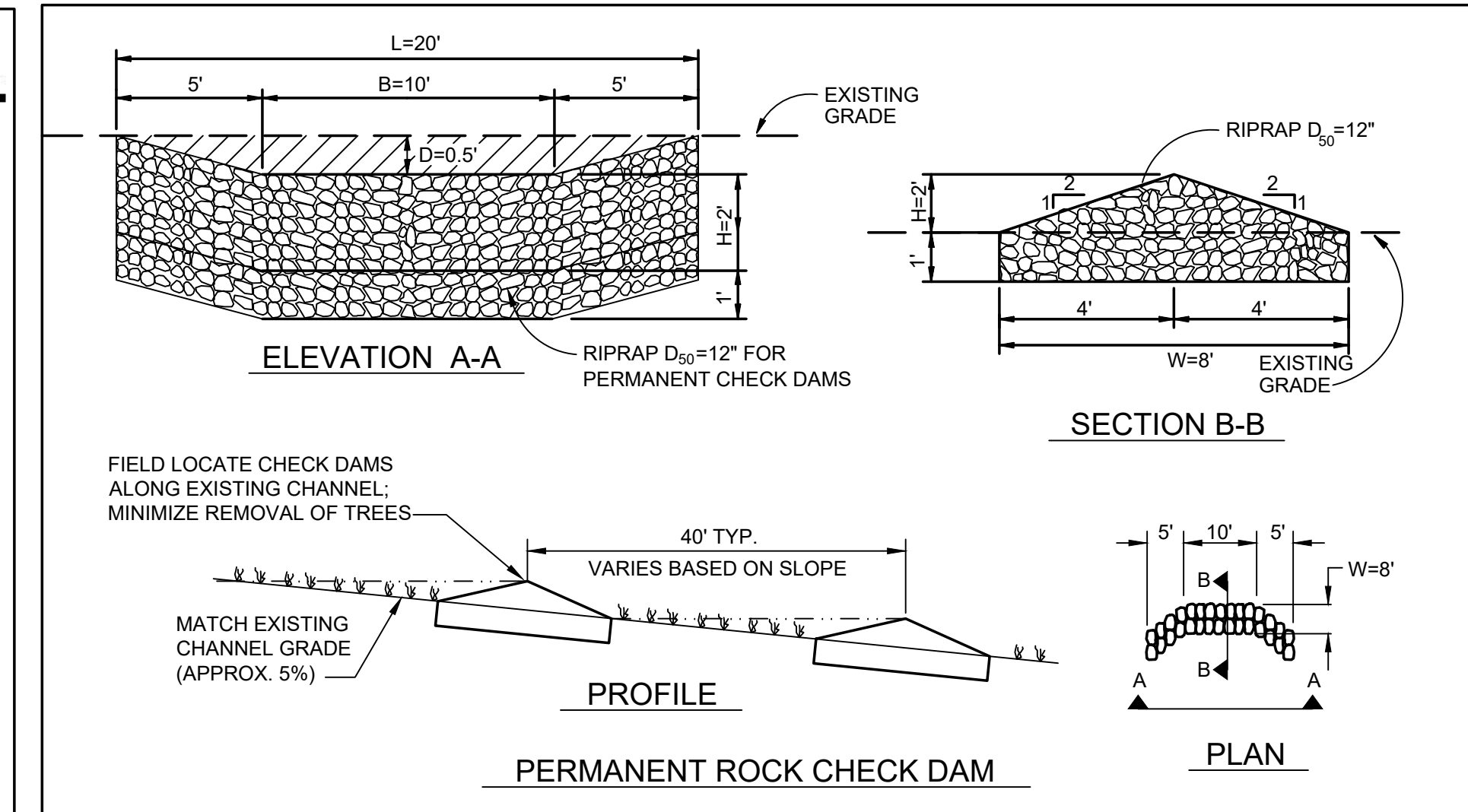
**Concrete Washout Area (CWA)**



CWA-1. CONCRETE WASHOUT AREA

- CWA INSTALLATION NOTES**
1. SEE PLAN VIEW FOR CWA INSTALLATION LOCATION.
  2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (18 MIL. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
  3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
  4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
  5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
  6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
  7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
  8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CWA-3



PERMANENT ROCK CHECK DAM

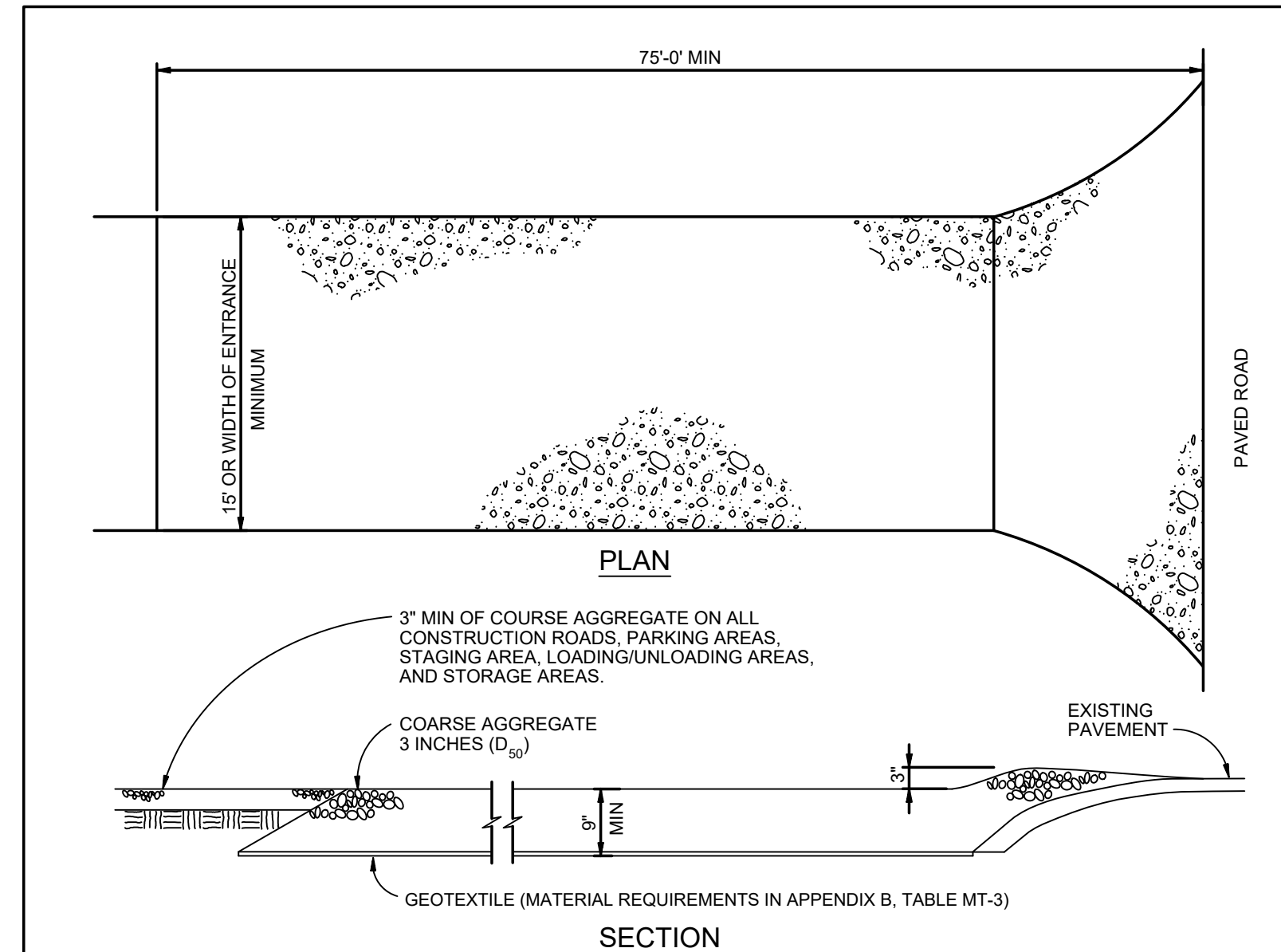
Table MD-7—Classification and Gradation of Ordinary Riprap

Riprap Designation	% Smaller Than Given Size by Weight	Intermediate Rock Dimensions (inches)	d <sub>50</sub> (inches)*
Type VL	70-100	12	6**
	50-70	9	
	35-50	6	
Type L	70-100	15	9**
	50-70	12	
	35-50	9	
Type M	70-100	21	12**
	50-70	18	
	35-50	12	
Type H	70-100	30	18
	50-70	24	
	35-50	18	
Type VH	70-100	42	24
	50-70	33	
	35-50	24	

\* d<sub>50</sub> = mean particle size (intermediate dimension) by weight.  
\*\* Mix VL, L and M riprap with 35% topsoil (by volume) and bury it with 4 to 6 inches of topsoil, all vibration compacted, and revegetate.

Basic requirements for riprap stone are as follows:

- Rock shall be hard, durable, angular in shape, and free from cracks, overburden, shale, and organic matter.
- Neither breadth nor thickness of a single stone should be less than one-third its length, and rounded stone should be avoided.
- The rock should sustain a loss of not more than 40% after 500 revolutions in an abrasion test (Los Angeles machine—ASTM C-535-69) and should sustain a loss of not more than 10% after 12 cycles of freezing and thawing (AASHTO test 103 for ledge rock procedure A).
- Rock having a minimum specific gravity of 2.65 is preferred; however, in no case should rock have a specific gravity less than 2.50.

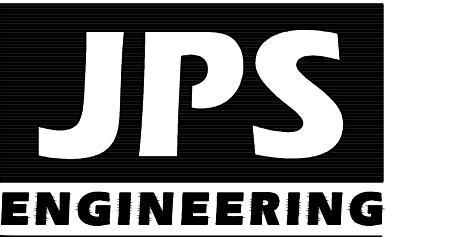


VEHICLE TRACKING

**VEHICLE TRACKING NOTES**

- INSTALLATION REQUIREMENTS**
1. ALL ENTRANCES TO THE CONSTRUCTION SITE ARE TO BE STABILIZED PRIOR TO CONSTRUCTION BEGINNINGS.
  2. CONSTRUCTION ENTRANCES ARE TO BE BUILT WITH AN APRON TO ALLOW FOR TURNING TRAFFIC, BUT SHOULD NOT BE BUILT OVER EXISTING PAVEMENT EXCEPT FOR A SLIGHT OVERLAP.
  3. AREAS TO BE STABILIZED ARE TO BE PROPERLY GRADED AND COMPACTED PRIOR TO LAYING DOWN GEOTEXTILE AND STONE.
  4. CONSTRUCTION ROADS, PARKING AREAS, LOADING/UNLOADING ZONES, STORAGE AREAS, AND STAGING AREAS ARE TO BE STABILIZED.
  5. CONSTRUCTION ROADS ARE TO BE BUILT TO CONFORM TO SITE GRADES, BUT SHOULD NOT HAVE SIDE SLOPES OR ROAD GRADES THAT ARE EXCESSIVELY STEEP.
- MAINTENANCE REQUIREMENTS**
1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL STABILIZED AREAS, ESPECIALLY AFTER STORM EVENTS.
  2. STONES ARE TO BE REAPPLIED PERIODICALLY AND WHEN REPAIR IS NECESSARY.
  3. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED DAILY BY SHOVELING OR SWEEPING. SEDIMENT IS NOT TO BE WASHED DOWN STORM SEWER DRAINS.
  4. STORM SEWER INLET PROTECTION IS TO BE IN PLACE, INSPECTED, AND CLEANED IF NECESSARY.
  5. OTHER ASSOCIATED SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED TO ENSURE GOOD WORKING CONDITION.

City of Colorado Springs Stormwater Quality Figure VT-2 Vehicle Tracking Application Examples



19 E. Willamette Ave.  
Colorado Springs, CO  
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PH: 719-477-9429  
FAX: 719-471-0766  
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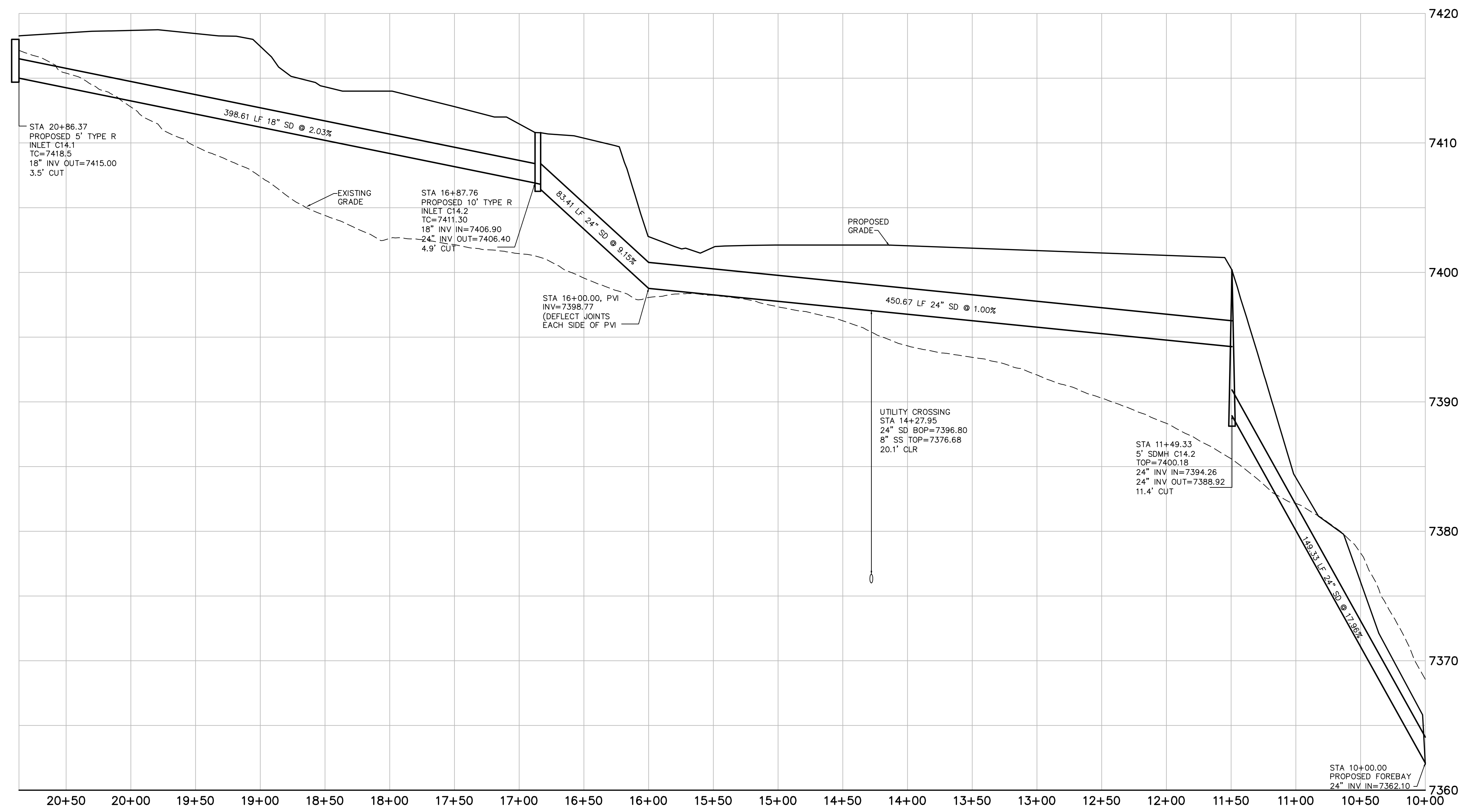
**EROSION CONTROL DETAILS**

NORTH  
DATE: 12/20/18  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 4/08/20

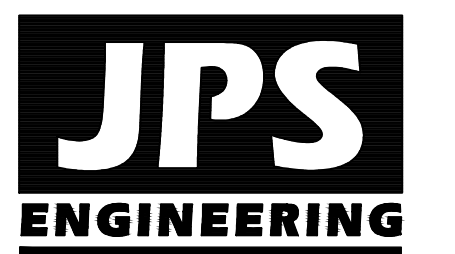
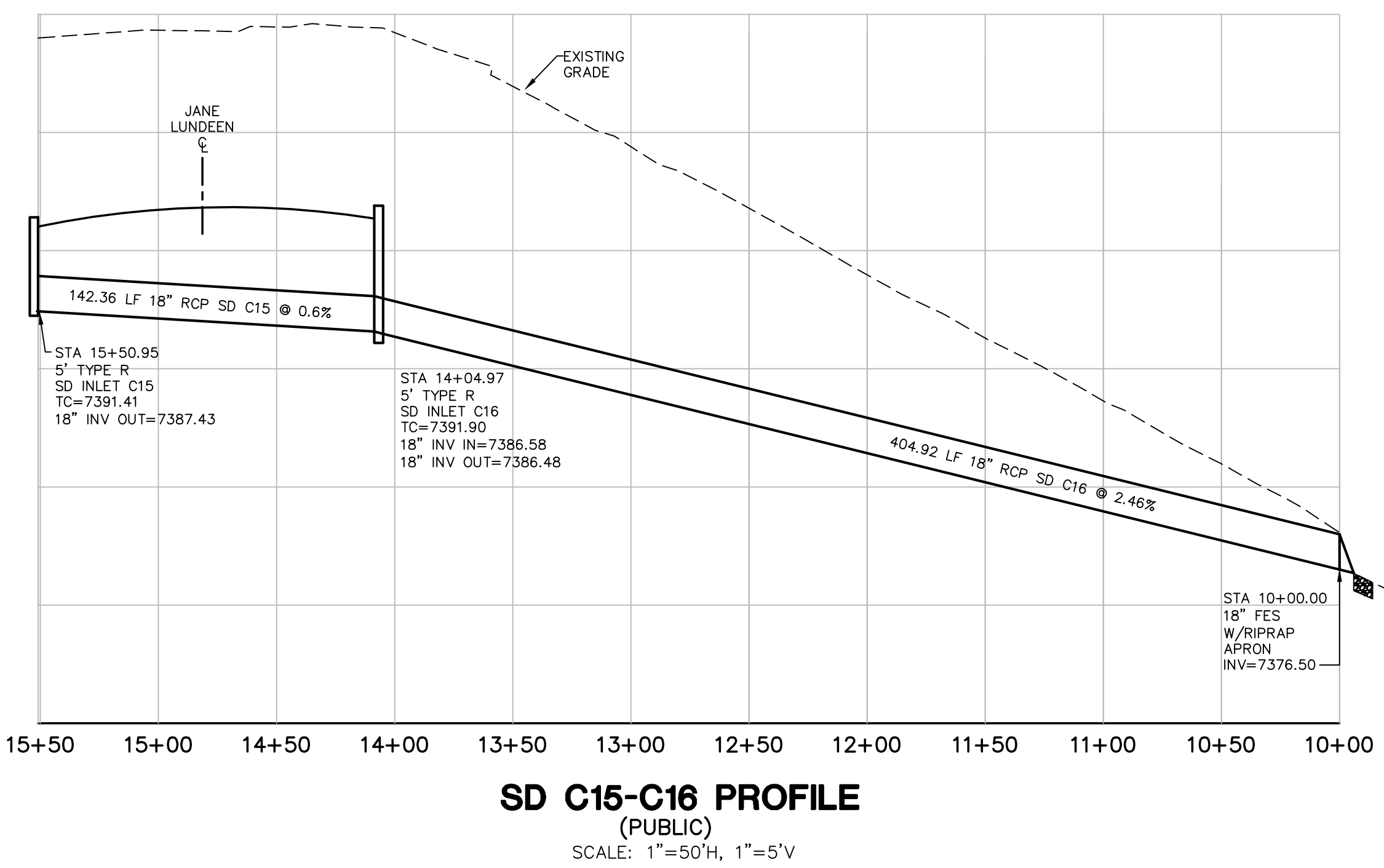
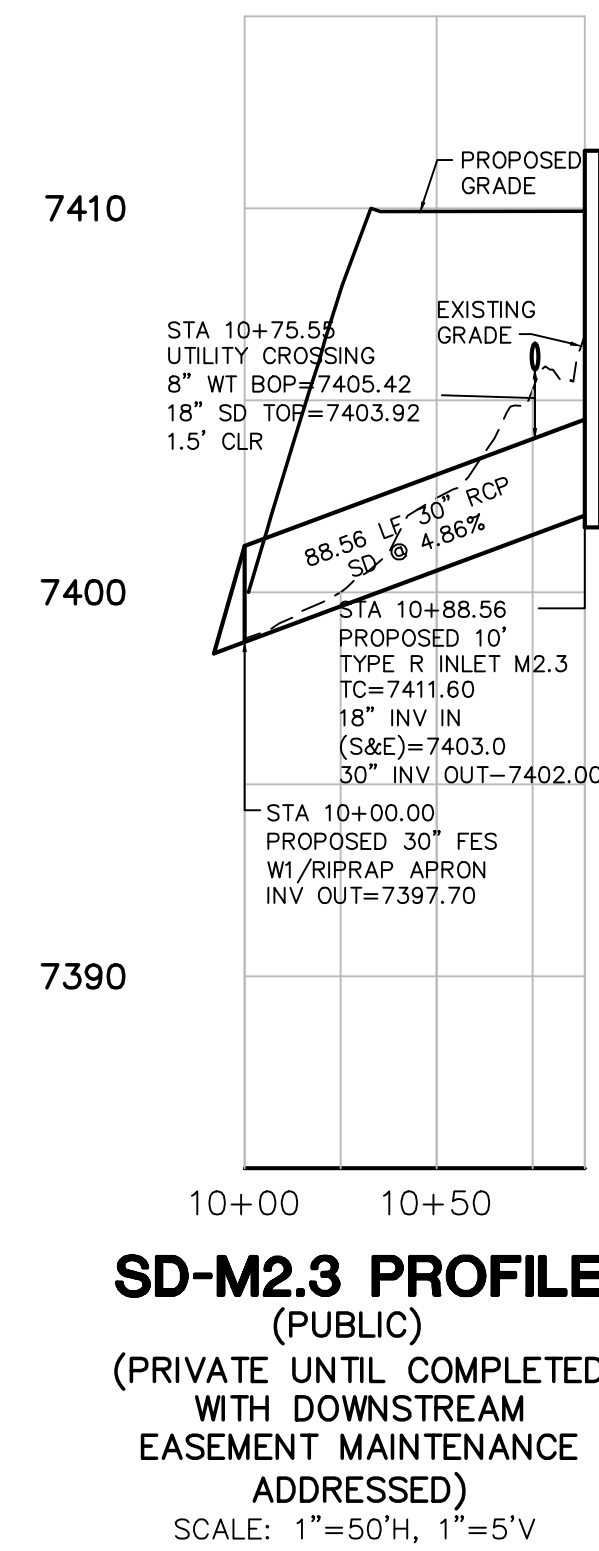
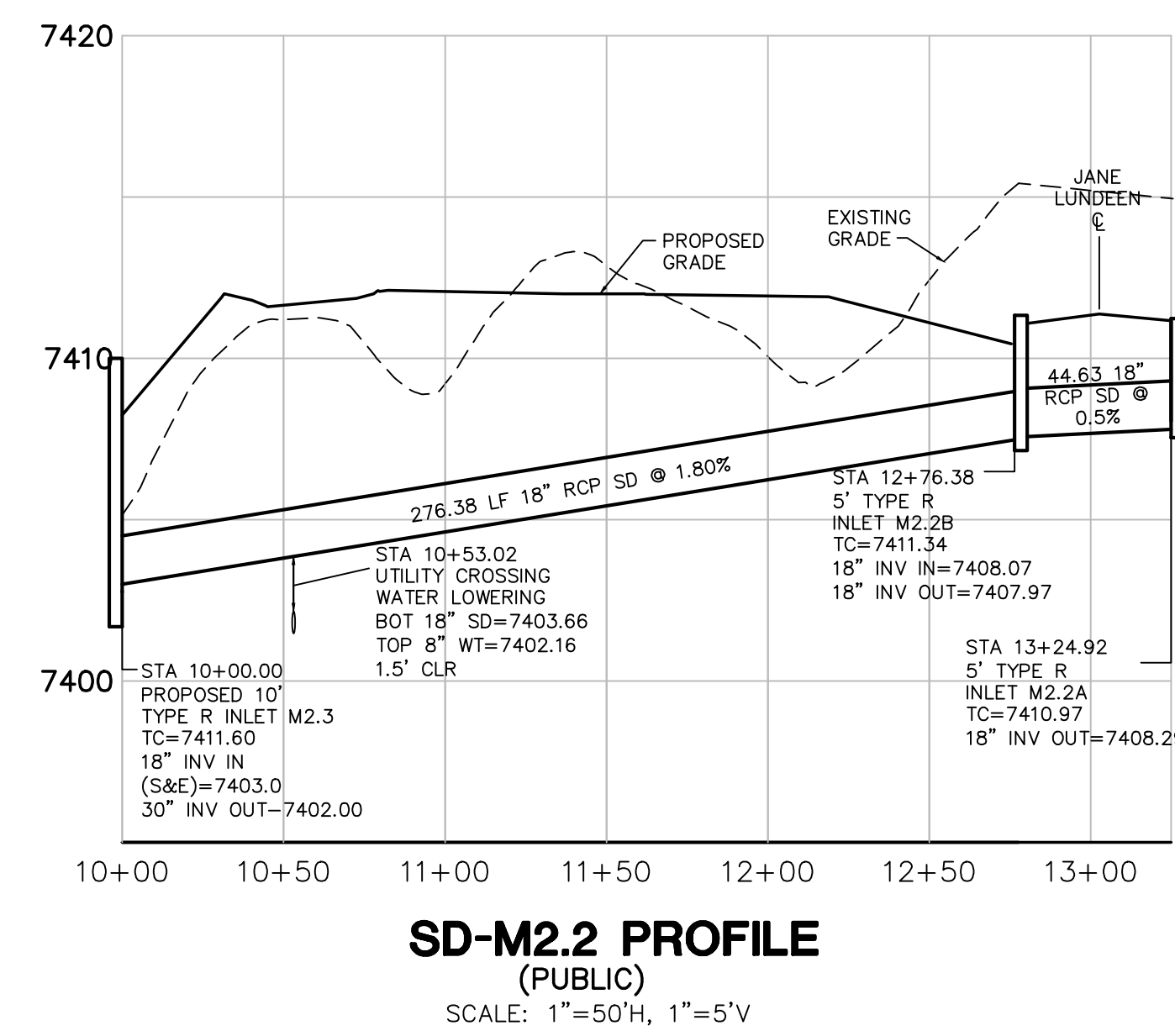
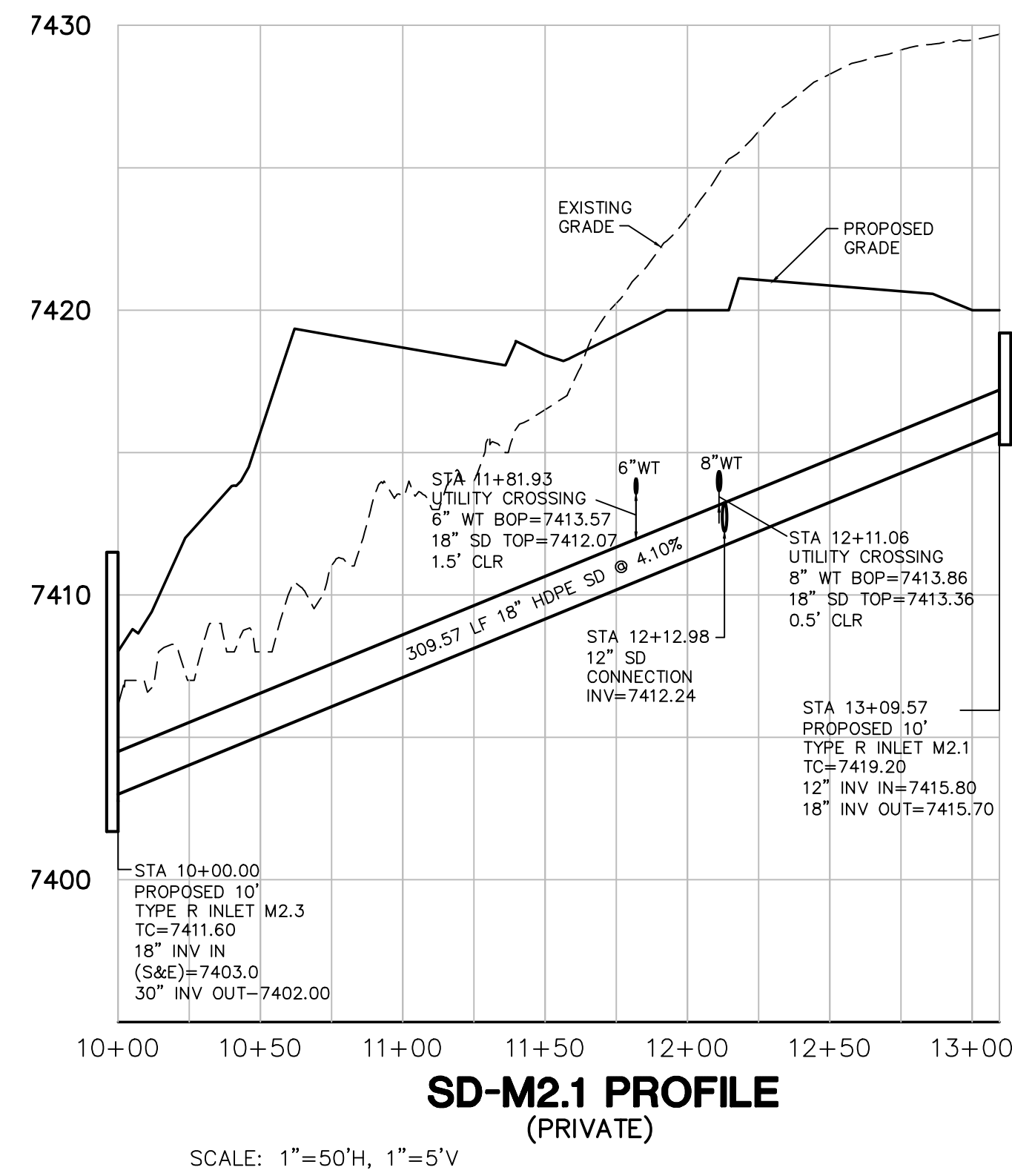
NO.	REVISION	BY	DATE
1	COUNTY COMMENTS	JPS	4/29/19
2	COUNTY COMMENTS	JPS	6/20/19
3	COUNTY COMMENTS	JPS	7/23/19
4	COUNTY COMMENTS	JPS	4/08/20

# MONUMENT ACADEMY HIGH SCHOOL

FOR CONSTRUCTION



**SD-C14 PROFILE (PRIVATE)**  
SCALE: 1"=50'H, 1"=5'V



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NO.	REVISION	BY	DATE
△	FOR PERMIT	JPS	4/01/19
△	COUNTY COMMENTS	JPS	4/29/19
△	COUNTY COMMENTS	JPS	6/20/19
△	COUNTY COMMENTS	JPS	8/09/19
△	SD-C14.2 REVISION	JPS	9/20/19
△	SD-C14.2 & SD-M2.1 REVISION	JPS	10/22/19
△	COUNTY COMMENTS	JPS	4/08/20
△	COUNTY COMMENTS	JPS	5/15/20

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Colorado Springs, Colorado 80903

**STORM SEWER PROFILES**

SCALE: 1"=50'H, 1"=5'V

NORTH  
DATE: 3/29/19  
DRAWN BY: BJJ  
CHECKED BY: JPS  
REVISED: 5/15/20

PCD PROJECT NO. CDR-20-001

EPC 5/27/2020

C6.1