





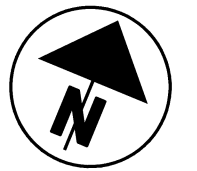
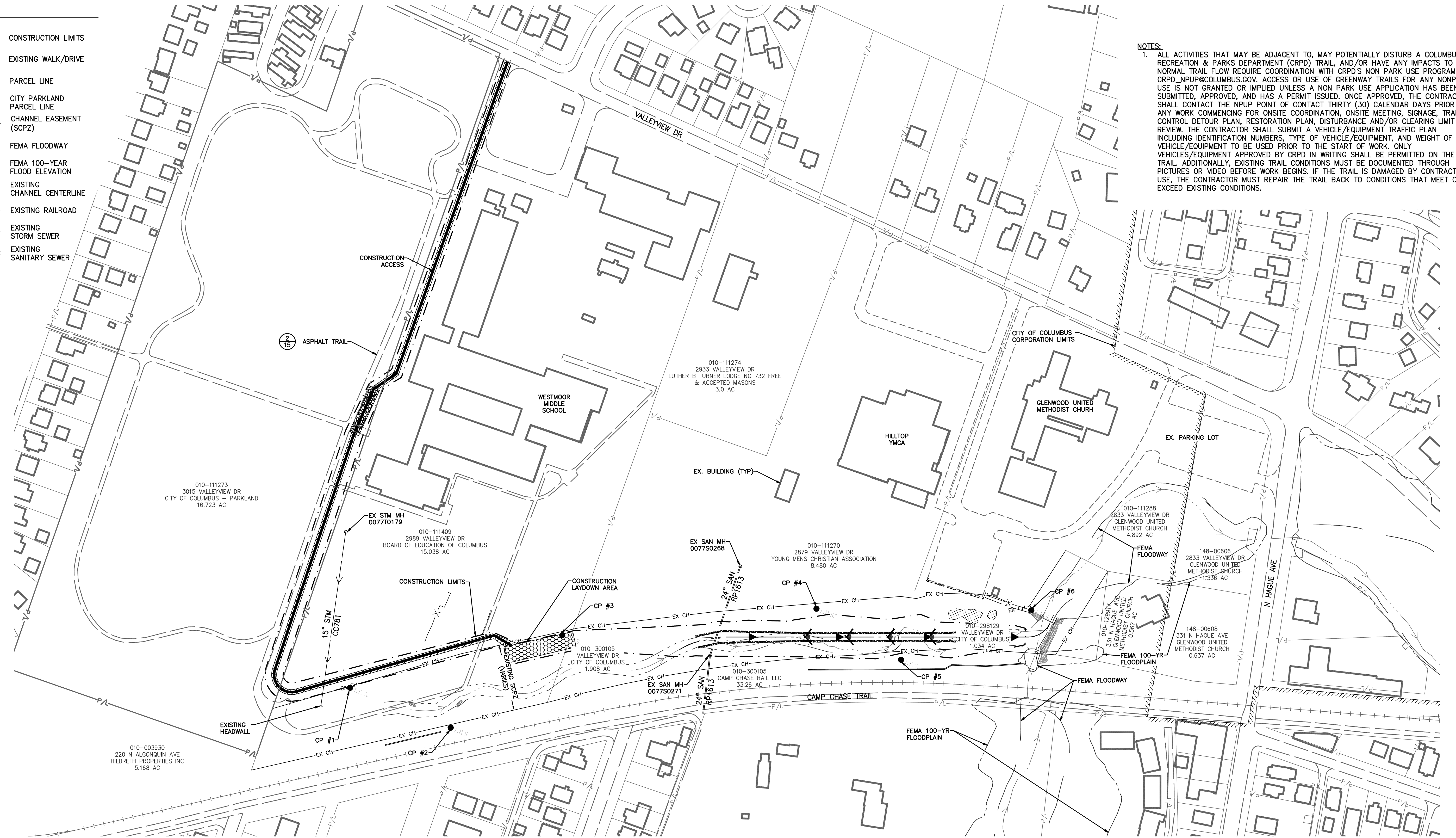


**LEGEND**

- CONSTRUCTION LIMITS
- - - EXISTING WALK/DRIVE
- P/L - PARCEL LINE
- P/L - CITY PARKLAND PARCEL LINE
- EX CH - CHANNEL EASEMENT (SCPZ)
- FEMA FLOODWAY
- - - FEMA 100-YEAR FLOOD ELEVATION
- - - EXISTING CHANNEL CENTERLINE
- - - EXISTING RAILROAD
- - - EXISTING STORM SEWER
- - - EXISTING SANITARY SEWER

**NOTES:**

1. ALL ACTIVITIES THAT MAY BE ADJACENT TO, MAY POTENTIALLY DISTURB A COLUMBUS RECREATION & PARKS DEPARTMENT (CRPD) TRAIL, AND/OR HAVE ANY IMPACTS TO NORMAL TRAIL FLOW REQUIRE COORDINATION WITH CRPD'S NON PARK USE PROGRAM AT CRPD\_NPUP@COLUMBUS.GOV. ACCESS OR USE OF GREENWAY TRAILS FOR ANY NONPARK USE IS NOT GRANTED OR IMPLIED UNLESS A NON PARK USE APPLICATION HAS BEEN SUBMITTED, APPROVED, AND HAS A PERMIT ISSUED. ONCE APPROVED, THE CONTRACTOR SHALL CONTACT THE NPUP POINT OF CONTACT THIRTY (30) CALENDAR DAYS PRIOR TO ANY WORK COMMENCING FOR ONSITE COORDINATION, ONSITE MEETING, SIGNAGE, TRAFFIC CONTROL, DETOUR PLAN, RESTORATION PLAN, DISTURBANCE AND/OR CLEARING LIMIT REVIEW. THE CONTRACTOR SHALL SUBMIT A VEHICLE/EQUIPMENT TRAFFIC PLAN INCLUDING IDENTIFICATION NUMBERS, TYPE OF VEHICLE/EQUIPMENT, AND WEIGHT OF VEHICLE/EQUIPMENT TO BE USED PRIOR TO THE START OF WORK. ONLY VEHICLES/EQUIPMENT APPROVED BY CRPD IN WRITING SHALL BE PERMITTED ON THE TRAIL. ADDITIONALLY, EXISTING TRAIL CONDITIONS MUST BE DOCUMENTED THROUGH PICTURES OR VIDEO BEFORE WORK BEGINS. IF THE TRAIL IS DAMAGED BY CONTRACTOR USE, THE CONTRACTOR MUST REPAIR THE TRAIL BACK TO CONDITIONS THAT MEET OR EXCEED EXISTING CONDITIONS.



0 100 200  
 Hori: 1 inch = 100 feet

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EASEMENT REFERENCE			REVISIONS		
CITY NO.	COUNTY RECORDER	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE
	VOL. PAGE				

PLAN PREPARED BY:

**EDG**  
 Environmental Design Group  
 ENVDESIGNGROUP.COM | 800-835-1390  
 7965 N HIGH ST., SUITE 050  
 COLUMBUS, OH 43235

PROJECT TITLE:					
DRY RUN STREAM BANK RESTORATION AND REPAIR OVERALL PLAN & SITE ACCESS					
DIVISION USE ONLY			OWNER		
			CONTRACTOR		
			INSPECTOR		
AGREEMENT		COMPLETED			
RPD	CKD	CLD	CON. DR.		
			SCALE: HORIZ: 1"=100'		
			SHEET: 4 OF 15		
			CONTRACT DRAWING NO.		RECORD PLAN NO.
			CC-20942		

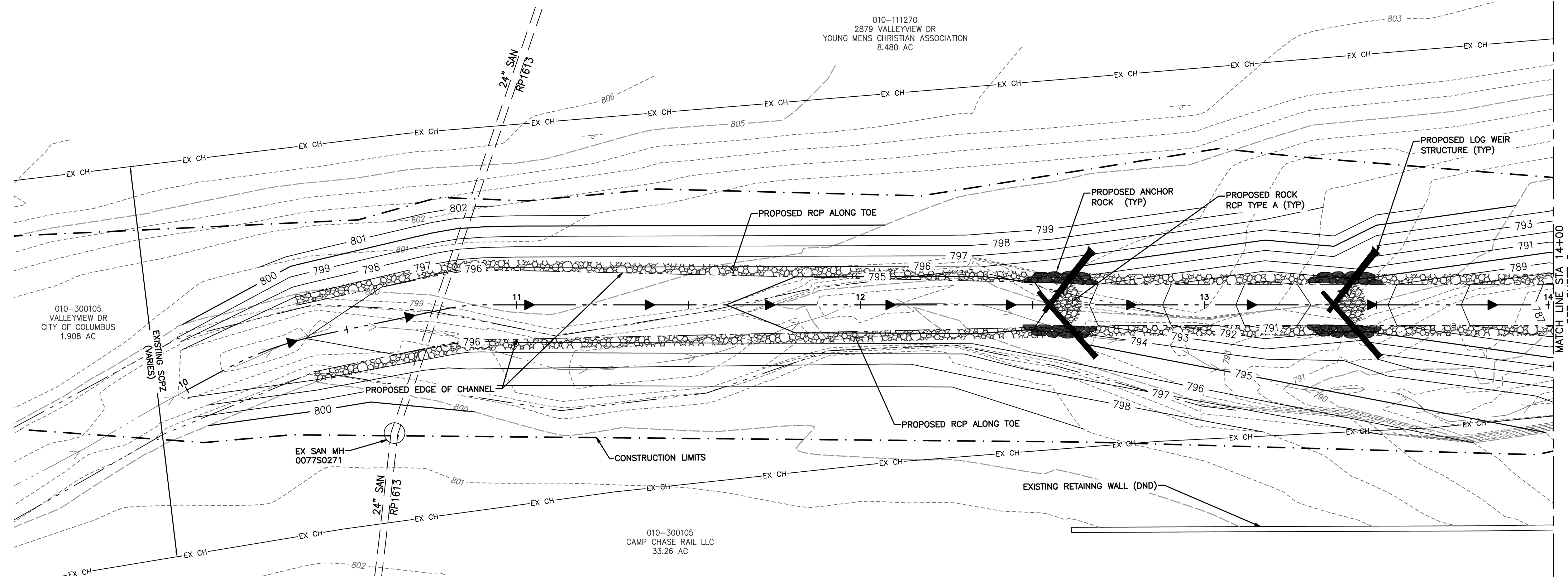
CITY OF COLUMBUS DEPARTMENT OF RECREATION AND PARKS DIVISION USE ONLY	
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CONTRACT DRAWING NO. CC-20942	RECORD PLAN NO.



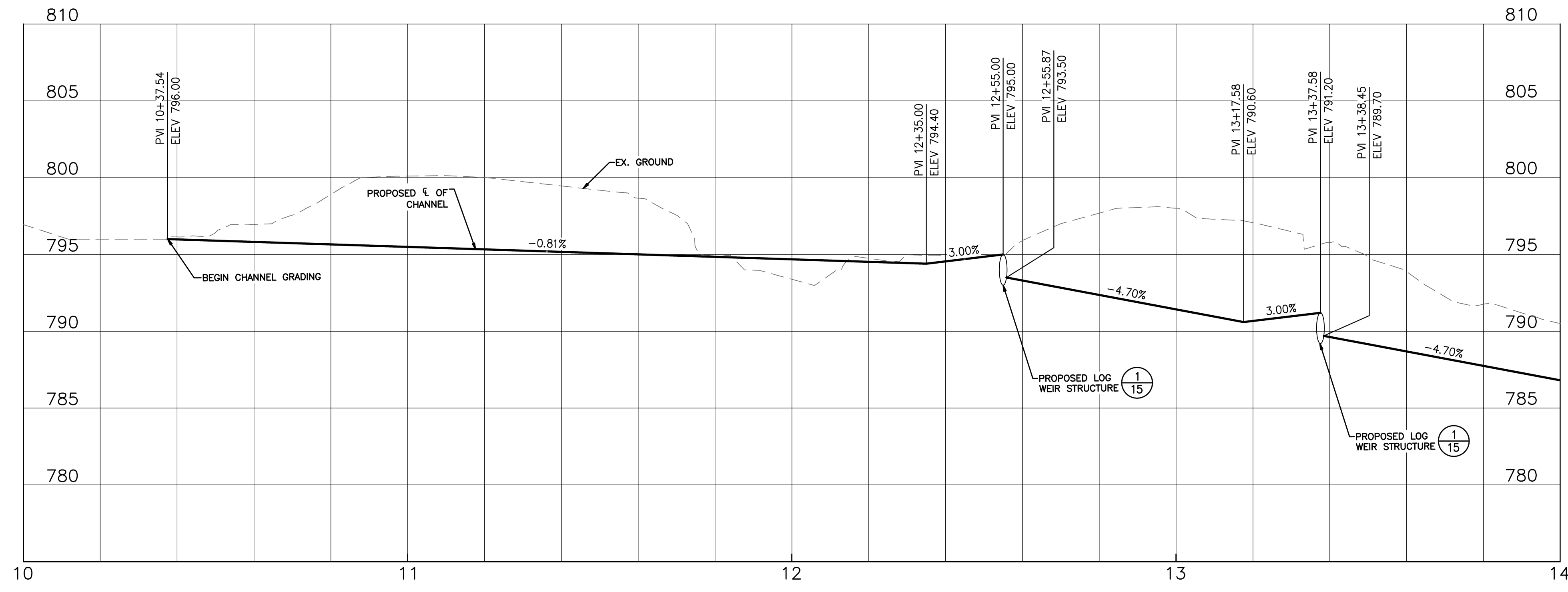
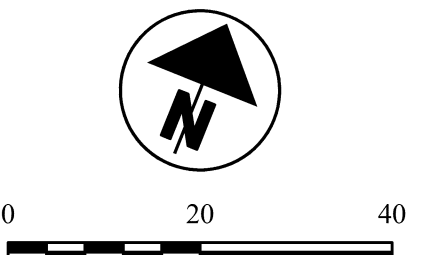


**LEGEND**

- CONSTRUCTION LIMITS
- EXISTING WALK/DRIVE
- PARCEL LINE
- CITY PARKLAND PARCEL LINE
- CHANNEL EASEMENT (SCPZ)
- FEMA FLOODWAY
- FEMA 100-YEAR FLOOD ELEVATION
- EXISTING CHANNEL CENTERLINE
- EXISTING CHANNEL EDGE
- PROPOSED CHANNEL CENTERLINE
- PROPOSED CHANNEL CENTERLINE
- EXISTING RAILROAD
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING CONTOURS
- PROPOSED CONTOURS



**NOTES:**  
 1. CONTRACTOR SHALL FIRST PLACE THE LARGEST SALVAGED ROCKS AS THE ANCHOR ROCKS AND RCP TYPE A FOR THE LOG WEIRS. THE REMAINING SALVAGED ROCKS SHALL BE PLACED ALONG THE TOE OF THE SLOPE, AS DIRECTED BY THE ENGINEER OR CITY OF COLUMBUS.



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NO.	DESCRIPTION	APPROVAL/DATE

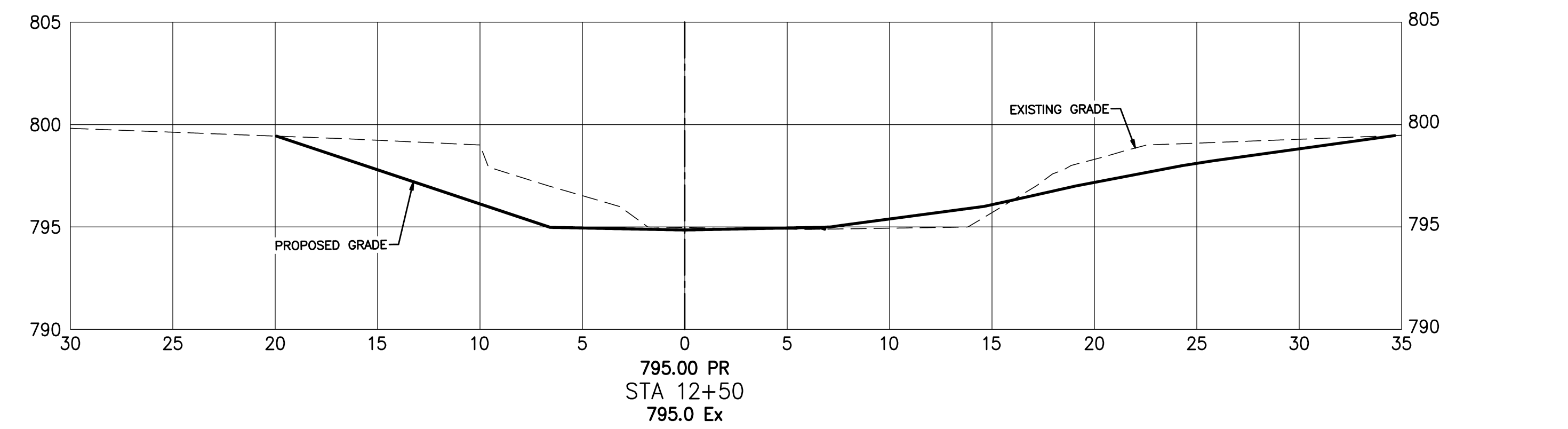
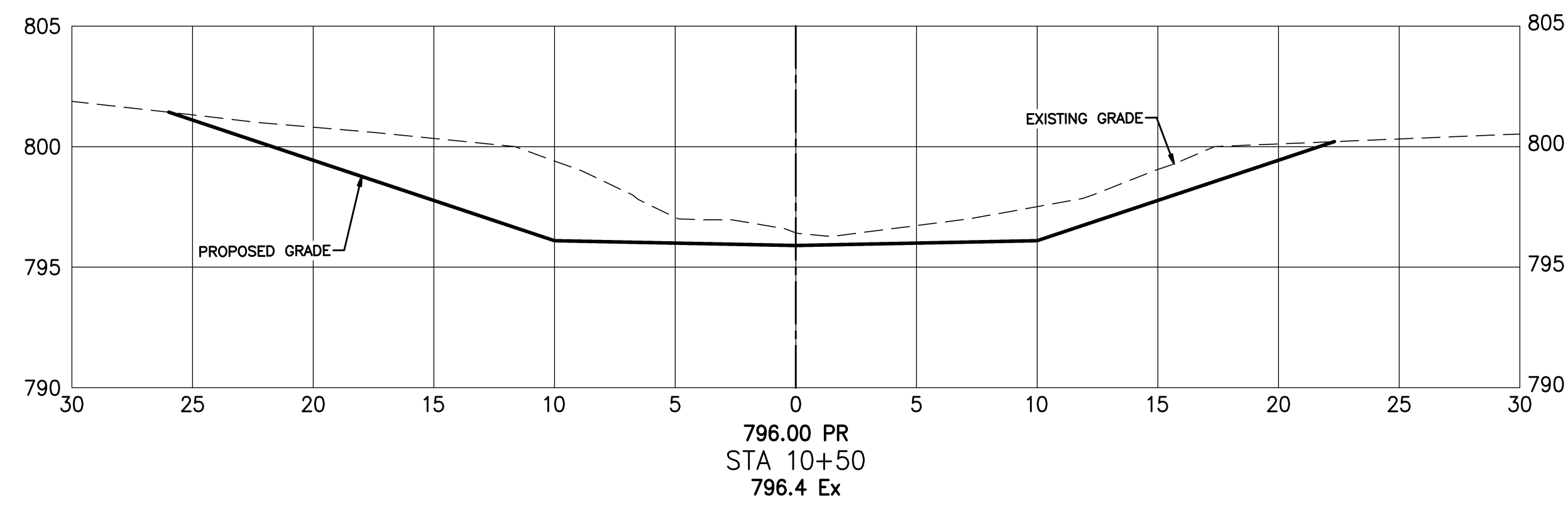
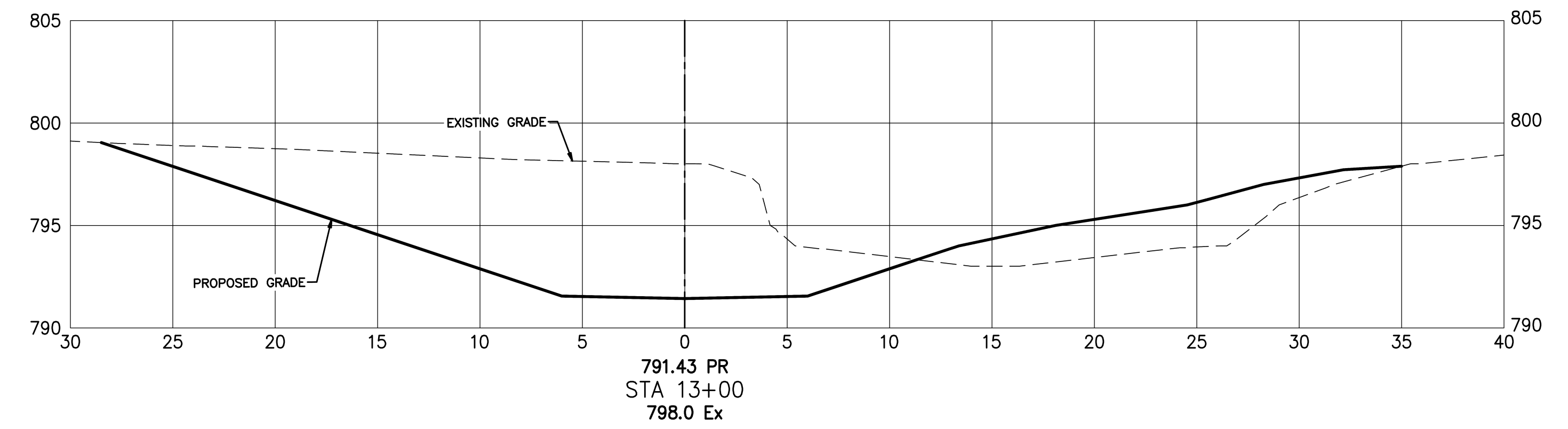
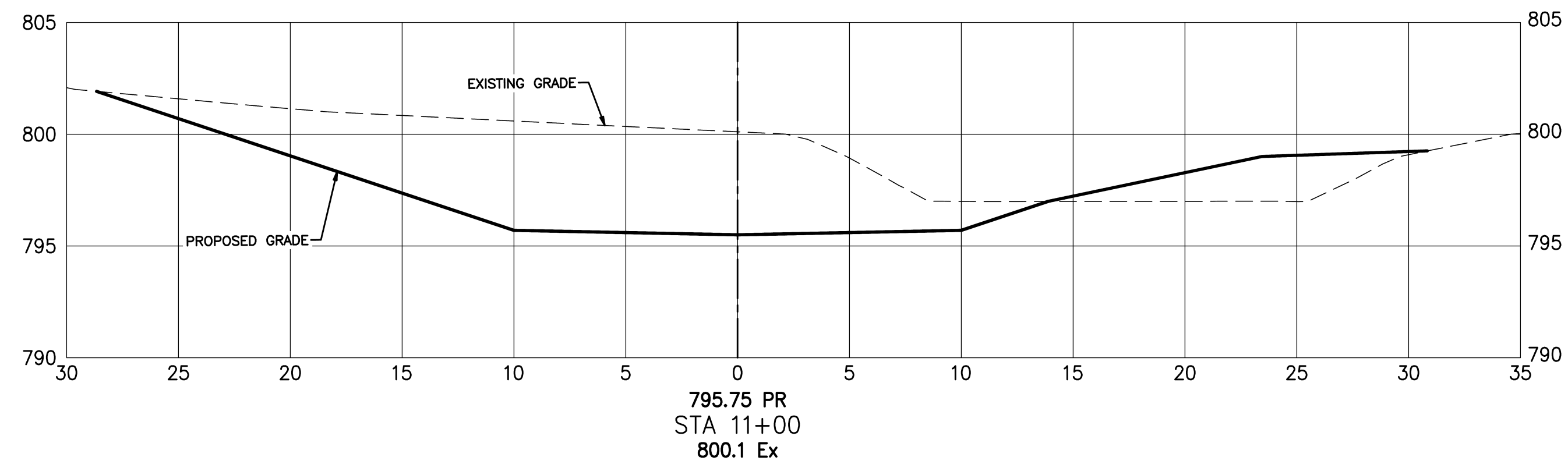
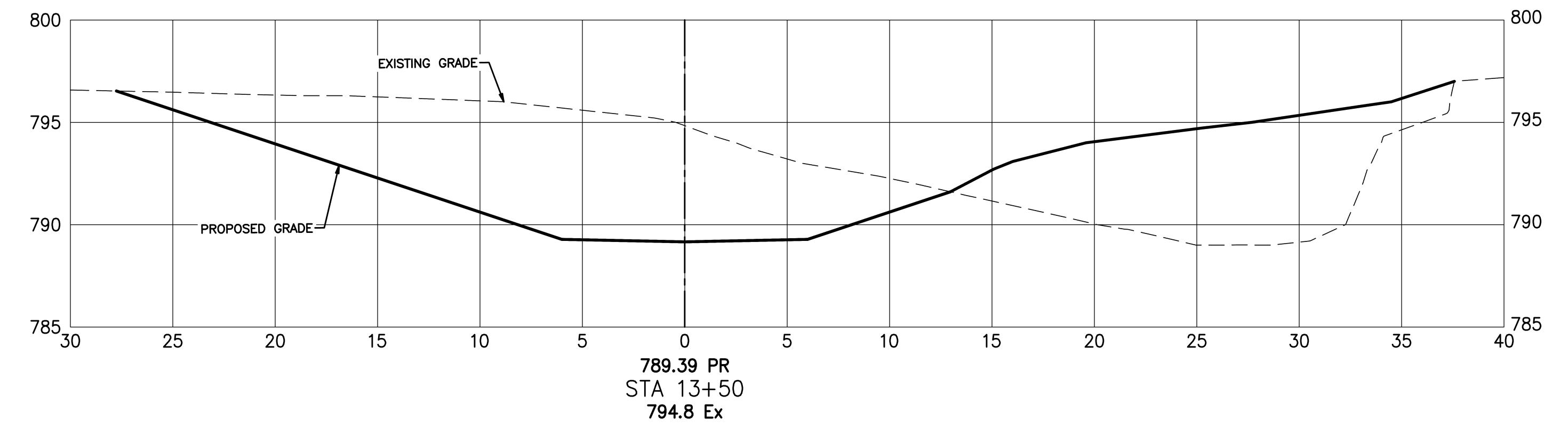
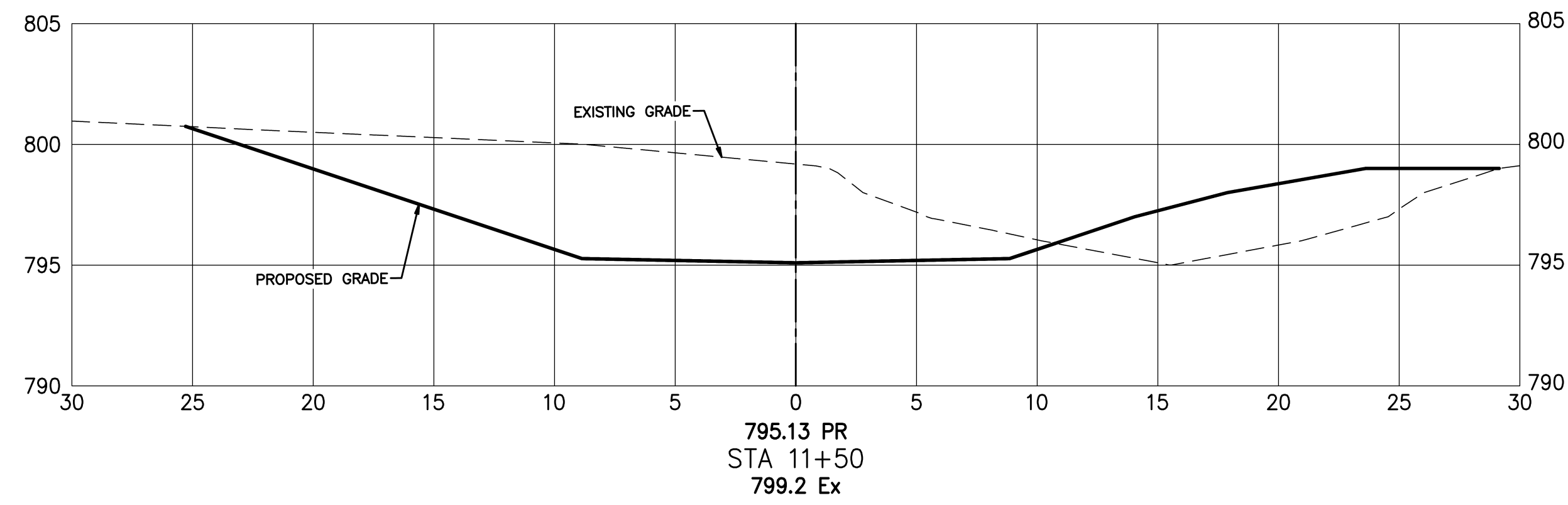
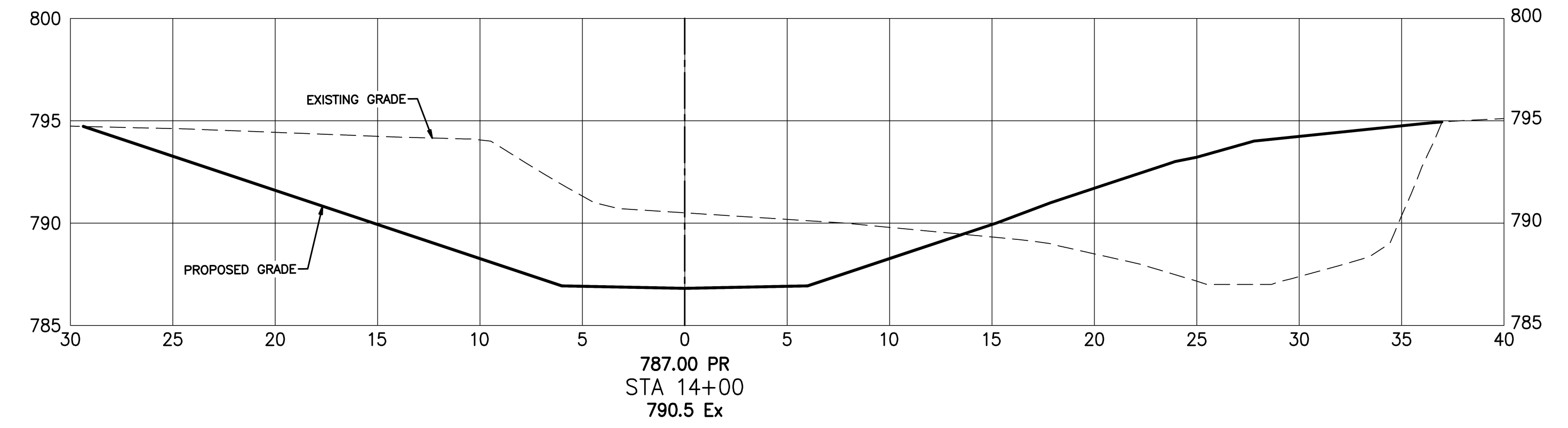
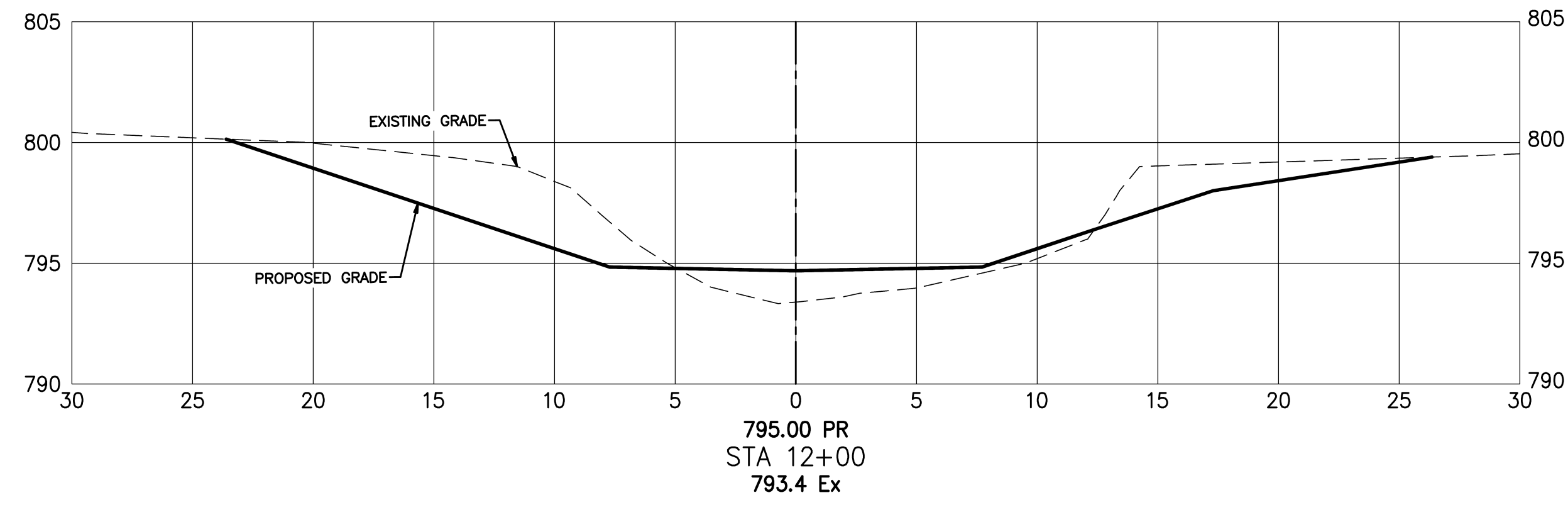
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**EDG**  
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 7965 N HIGH ST., SUITE 050  
 COLUMBUS, OH 43235

PROJECT TITLE:			
DRY RUN STREAM BANK RESTORATION AND REPAIR PLAN AND PROFILE			
DIVISION USE ONLY		OWNER	
		CONTRACTOR	
		INSPECTOR	
		AGREEMENT	COMPLETED
RPD	CKD	CLD	CON. DR.

CITY OF COLUMBUS DEPARTMENT OF RECREATION AND PARKS DIVISION USE ONLY	
SCALE: HORIZ: 1"=20' VERT: 1"=5'	SHEET: 7 OF 15
CONTRACT DRAWING NO. CC-20942	RECORD PLAN NO.





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NO.	DESCRIPTION	APPROVAL/DATE

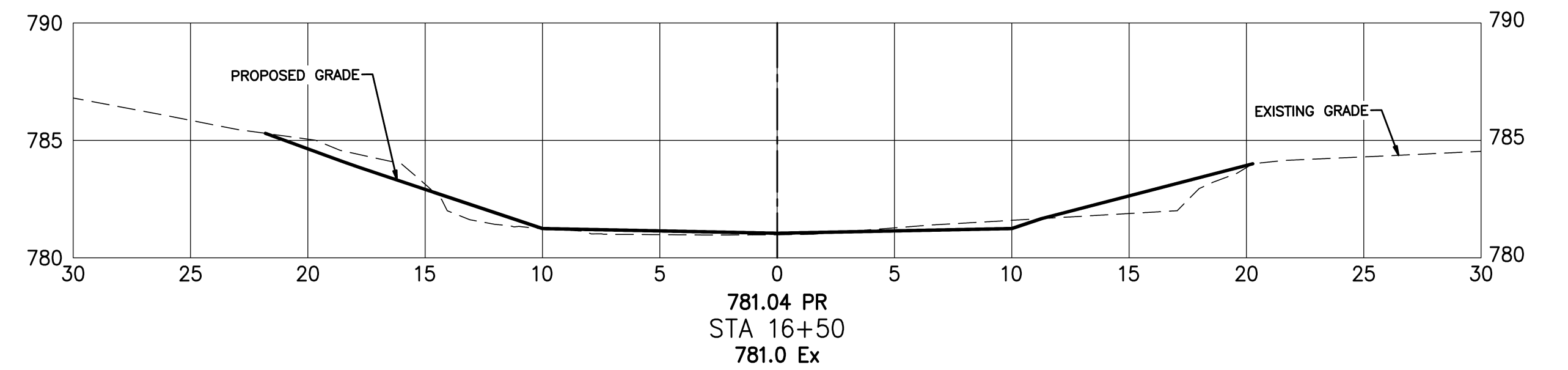
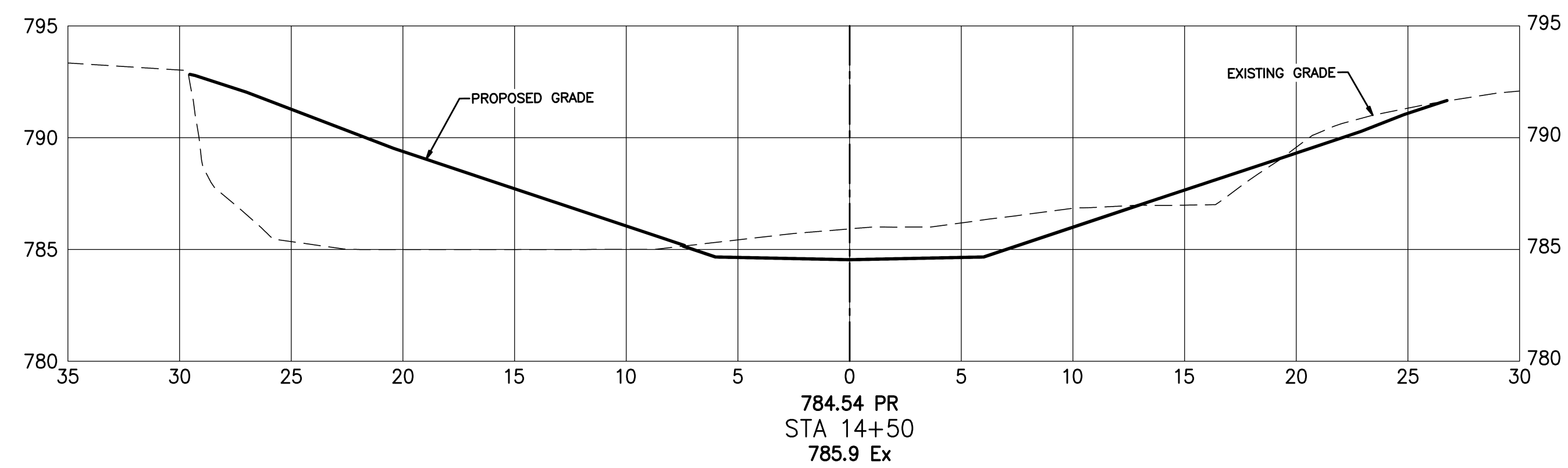
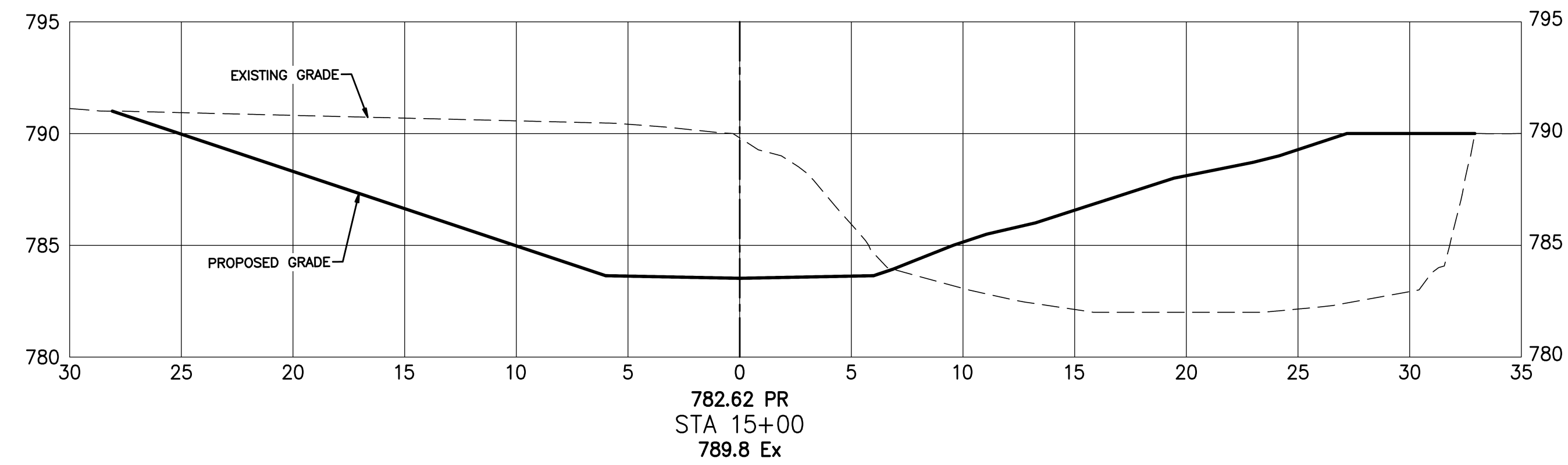
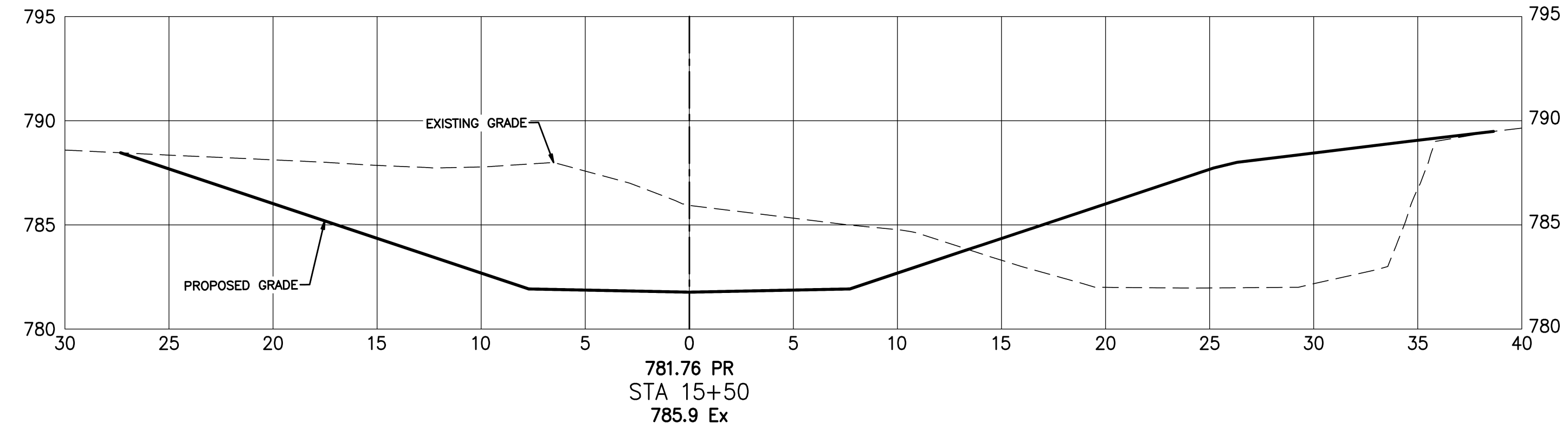
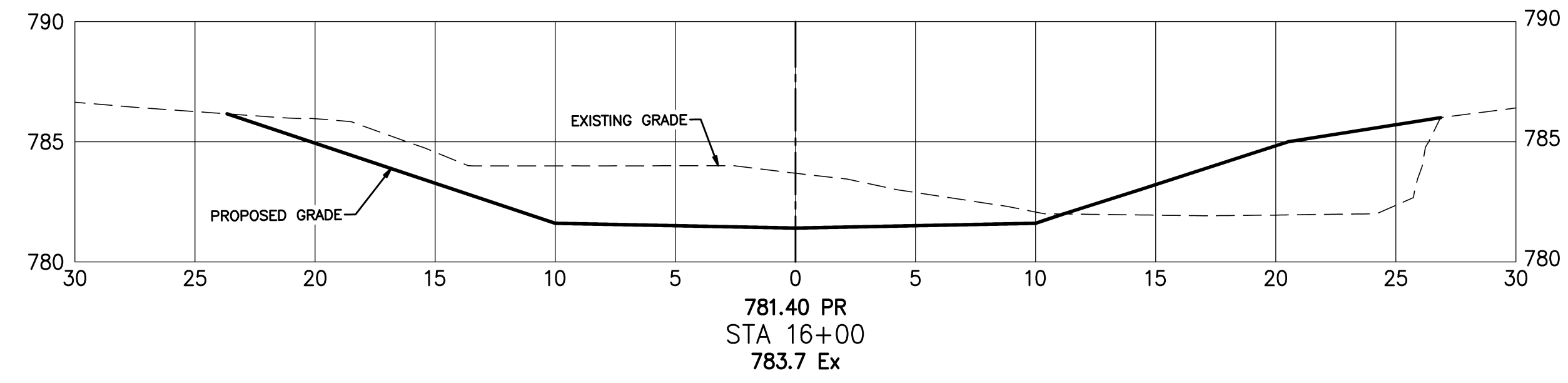
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COLUMBUS, OH 43235

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PROJECT TITLE: DRY RUN STREAM BANK RESTORATION AND REPAIR CROSS SECTIONS					
DIVISION USE ONLY			OWNER		
			CONTRACTOR		
			INSPECTOR		
AGREEMENT		COMPLETED			
RPD	CKD	CLD	CON. DR.		

CITY OF COLUMBUS DEPARTMENT OF RECREATION AND PARKS DIVISION USE ONLY	
SCALE: 1"=5'	SHEET: 9 OF 15
CONTRACT DRAWING NO. CC-20942	RECORD PLAN NO.



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PROJECT TITLE:

DRY RUN STREAM BANK RESTORATION AND REPAIR  
CROSS SECTIONS

DIVISION USE ONLY		OWNER	
		CONTRACTOR	
		INSPECTOR	
		AGREEMENT	COMPLETED
RPD	CKD	CLD	CON. DR.

CITY OF COLUMBUS  
DEPARTMENT OF RECREATION AND PARKS  
DIVISION USE ONLY

SCALE: 1"=5'	SHEET: 10 OF 15
CONTRACT DRAWING NO. CC-20942	RECORD PLAN NO.



**STORMWATER POLLUTION PREVENTION PLAN NOTES**

- CONSTRUCT IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, AND THE OHIO RAINWATER AND LAND DEVELOPMENT HANDBOOK (2006). THE IMPLEMENTATION OF SOIL EROSION AND SEDIMENT CONTROL SHALL ALSO CONFORM TO THE REQUIREMENTS OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) UNDER NPDES PERMIT #OHCO0006. IF CONFLICTS EXIST REGARDING THE SOIL AND SEDIMENT CONTROL PRACTICES, THE MORE RESTRICTIVE SHALL APPLY.
- CONTRACTOR SHALL MAKE EVERY EFFORT TO KEEP THE PUBLIC ROADWAYS THAT WILL SERVE AS ACCESS POINTS FREE OF TRASH, DEBRIS, AND MUD. THIS MAY INCLUDE STREET SWEEPING AND CONSTRUCTION ENTRANCE MAINTENANCE AND RECONSTRUCTION AS NEEDED TO MINIMIZE THE TRACKING OF DIRT AND MUD ONTO THE ROADWAY. THE CONTRACTOR SHALL ALSO MINIMIZE DUST FROM THE CONSTRUCTION OPERATION AS WELL. IN ADDITION TO THESE MEASURES THE CONTRACTOR WILL KEEP A CLEAN SITE AND NOT ALLOW TRASH, MATERIALS, AND DEBRIS TO BECOME SCATTERED ON AND OFF THE PROJECT SITE.
- STABILIZATION OF DISTURBED AREAS – DISTURBED AREAS SHALL HAVE SOIL STABILIZATION APPLIED WITHIN SEVEN (7) DAYS IF THEY ARE TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN FOURTEEN (14) DAYS. FOR AREAS WITHIN FIFTY (50) FEET OF ANY LIVE STREAM, SOIL STABILIZATION PRACTICES SHALL BE INITIATED WITHIN TWO (2) DAYS ON ALL INACTIVE, DISTURBED AREAS. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. WHEN SEASONAL CONDITIONS PROHIBIT THE APPLICATION OF TEMPORARY OR PERMANENT SEEDING, NON-VEGETATIVE SOIL STABILIZATION PRACTICES SUCH AS MULCHING AND MATTING SHALL BE USED.
- INSTALL ALL EROSION AND SEDIMENT CONTROL ITEMS BEFORE ANY CLEARING AND GRUBBING OR EARTHWORK IS BEGUN.
- PROTECT UNDISTURBED AREAS THROUGHOUT CONSTRUCTION. DO NOT STORE EQUIPMENT, VEHICLES OR MATERIALS IN THESE PROTECTED AREAS.
- SEEDING AND FERTILIZER FOR PERMANENT COVER SHALL BE AS SPECIFIED.
- MULCHING SHALL BE PER CMSC 659.
- TOPSOILING SHALL BE PER CMSC 653.
- SILT FENCE AND/OR SILT SOCK SHALL BE AS DETAILED ON THE DRAWINGS AND AS SPECIFIED.
- ROCK CHANNEL PROTECTION SHALL BE PER CMSC 601.
- NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORMWATER RUNOFF.
- OFF-SITE VEHICLE TRACKING OF SEDIMENTS WILL BE MINIMIZED. ALL OFF-SITE TRACKING OF SEDIMENT SHALL BE CLEANED UP AS IT OCCURS.
- ALL PUMPED WATER MUST EITHER PASS THROUGH A SEDIMENT SETTLING FACILITY OR SEDIMENT BAG SURROUNDED BY SILT SOCK OR FILTER FENCE.
- OTHER EROSION CONTROL AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.
- A PRE-CONSTRUCTION MEETING IS REQUIRED WITH THE CITY OF COLUMBUS PRIOR TO BEGINNING WORK.
- TRUCK WASHOUT AND DISCHARGE OF SURPLUS WASH WATER ON SITE IS PERMITTED EXCLUSIVELY IN THE DESIGNATED AREA.
- WINTERIZATION – ANY DISTURBED AREA THAT IS NOT GOING TO BE WORKED FOR 14 DAYS OR MORE MUST BE SEEDED AND MULCHED BY NOVEMBER 1 OR MUST HAVE A DORMANT SEEDING OR MULCH COVER APPLIED BETWEEN NOVEMBER 1 AND MARCH 1.
- STAGING, STORAGE, FUELING AND VEHICLE PARKING ARE SHOWN ON THE SWPP PLAN. IF THE CONTRACTOR WANTS TO UTILIZE A DIFFERENT LOCATION FOR THESE FUNCTIONS, HE SHALL REVISE THE SWPP PLAN AND SUBMIT IT TO THE CITY OF COLUMBUS FOR APPROVAL.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL MEASURES.
- DISTURBED AREAS REMAINING DORMANT FOR OVER A YEAR AT THE FINAL GRADE WILL HAVE A PERMANENT COVER APPLIED WITHIN 7 DAYS OF LAST DISTURBANCE.

**MAINTENANCE AND INSPECTION:**  
 PERMANENT RECORDS OF MAINTENANCE AND INSPECTION MUST BE MAINTAINED THROUGHOUT CONSTRUCTION A MINIMUM OF ONCE EVERY 7 DAYS AND AFTER STORM EVENTS GREATER THAN 0.5 INCH IN A 24 HOUR PERIOD. PROVIDE NAME OF INSPECTOR, MAJOR OBSERVATIONS, DATE OF INSPECTION, CERTIFICATION OF COMPLIANCE AND CORRECTIVE MEASURES TAKEN.

**REPAIRS:**  
 ANY EROSION CONTROL MEASURES, STRUCTURES, DEVICES, OR RELATED ITEMS IN NEED OF REPAIR WILL BE MADE WITHIN 7 DAYS.

**MATERIAL MANAGEMENT PRACTICES:**  
 THE FOLLOWING PRACTICES SHALL BE EXECUTED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUN-OFF. THE JOB SITE SUPERINTENDENT IS RESPONSIBLE FOR ENSURING THESE PRACTICES ARE FOLLOWED:

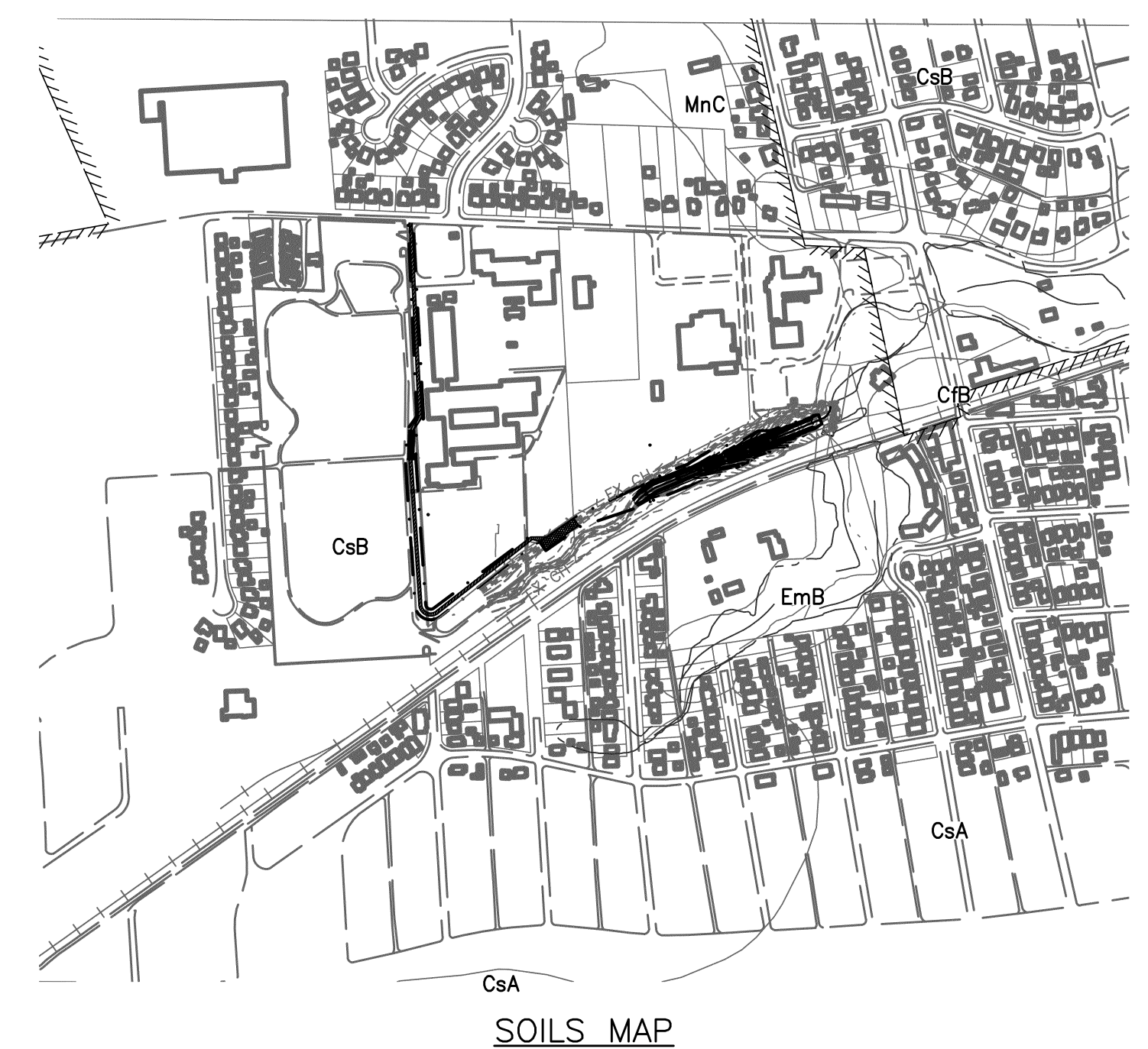
- STORE THE MINIMUM AMOUNT OF PRODUCT REQUIRED TO COMPLETE THE JOB, IF POSSIBLE, UNDER ROOF OR IN A CONTAINMENT AREA. PRODUCTS SHALL REMAIN IN THEIR ORIGINAL CONTAINER. LABEL MUST BE LEGIBLE.
- MANUFACTURER'S RECOMMENDATION SHALL BE FOLLOWED FOR USE AND DISPOSAL.
- PRODUCT TO BE USED ENTIRELY (WHEN POSSIBLE) PRIOR TO DISPOSING.

- MATERIAL SAFETY DATA SHEETS (MSDS) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES USED ON THE SITE SHALL BE OBTAINED AND POSTED IN THE IMMEDIATE AREA OF PRODUCT STORAGE AND SHALL BE USED FOR PROPER MANAGEMENT OF POTENTIAL WASTE.
- ALL HAZARDOUS WASTE MATERIAL WILL BE DISPOSED BY THE CONTRACTOR IN A MANNER SPECIFIED BY LOCAL, STATE OR FEDERAL REGULATIONS AND PER MANUFACTURERS RECOMMENDATIONS.
- ALL PERSONNEL SHALL BE TRAINED IN THE PROPER HANDLING AND CLEAN UP OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR WASTE SHALL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF NECESSARY, THE CONTAMINATED STORMWATER WILL BE HELD ON SITE UNTIL IT MEETS LOCAL, STATE AND FEDERAL REGULATIONS.
- IN THE EVENT OF A SPILL THE FOLLOWING PROCEDURES MUST BE FOLLOWED:
  - ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
  - THE PROJECT MANAGER AND ENGINEER OF RECORD IMMEDIATELY NOTIFIED.
  - ANY SPILLS OF TOXIC OR HAZARDOUS MATERIALS MUST BE REPORTED TO THE APPROPRIATE LOCAL, STATE AND FEDERAL AGENCY. THE EPA NATIONAL RESPONSE CENTER (1-800-424-8802) MUST BE NOTIFIED WHEN A SPILL EXCEEDS THE REPORTABLE QUANTITY OF A SUBSTANCE. THE SUBSTANCES AND AMOUNTS ARE LOCATED IN FEDERAL REGULATIONS (40 CFR 110, 114 AND 302).
  - IF A SPILL EXCEEDS A REPORTABLE QUANTITY, THE SWPP PLAN MUST BE MODIFIED WITHIN 7 DAYS PROVIDING A DESCRIPTION, DATE AND INCIDENT OF THE RELEASE.

SITE LOCATION INFORMATION		LATITUDE:	39°57'41"N
COLUMBUS		LONGITUDE:	83°04'42"W
CITY, VILLAGE, TOWNSHIP		FRANKLIN	OHIO
DRY RUN, SCIOTO RIVER WATERSHED		COUNTY	STATE
NAME OF WATERSHED/IMMEDIATE RECEIVING WATER(S)			
2833 VALLEYVIEW DR, COLUMBUS, OH 43204			
SITE ADDRESS			
CITY OF COLUMBUS, RECREATION AND PARKS DEPT.		(614) 645-3300	
OWNER		PHONE	
1111 E. BROAD ST., COLUMBUS, OH 43205			
DEVELOPER ADDRESS			
HYDROLOGIC SOIL GROUPS:			
CfB – CELINA-URBAN LAND COMPLEX, 2 TO 6 PERCENT SLOPES			
CsA – CROSBY-URBAN LAND COMPLEX, 0 TO 2 PERCENT SLOPES			
CsB – CROSBY-URBAN LAND COMPLEX, 2 TO 6 PERCENT SLOPES			
EmB – ELDEAN-URBAN LAND COMPLEX, 2 TO 6 PERCENT SLOPES			
MnC – MIAMIAN-URBAN LAND COMPLEX, 6 TO 12 PERCENT SLOPES			

SITE DESCRIPTION			
MARK ONE	TOTAL AREA		
	PRE-DEV CURVE NO.	-	2.85 AC
SUBDIVISION	POST DEV CURVE NO.	-	83
COMMERCIAL	AREA TO BE CLEARED	-	0.00 AC
RESIDENTIAL	AREA TO BE EXCAVATED	-	0.85 AC
PUD	PRE-DEV IMPERVIOUSNESS	-	0%
OTHER	POST DEV IMPERVIOUSNESS	-	0%

SCHEDULE OF MAJOR CONSTRUCTION OPERATIONS												
2026												
	J	F	M	A	M	J	J	A	S	O	N	D
CLEARING/DEMOLITION				●	●				●	●		
ROUGH GRADING				●	●	●	●	●	●	●		
LOG WEIR	●	●	●	●	●	●	●	●	●	●	●	●
FINE GRADING	●			●	●	●	●	●	●	●		
PAVING						●	●	●	●	●		
TOPSOIL AND SEEDING	●			●	●				●	●		
LANDSCAPING	●			●	●				●	●		
TEMPORARY EROSION CONTROL	●	●	●	●	●	●	●	●	●	●	●	●



**Table 1: Permanent Stabilization**

Area requiring permanent stabilization	Time frame to apply erosion controls
Any areas that will lie dormant for one year or more	Within seven days of the most recent disturbance
Any areas within 50 feet of a surface water of the state and at final grade	Within two days of reaching final grade
Other areas at final grade	Within seven days of reaching final grade within that area

**Table 2: Temporary Stabilization**

Area requiring temporary stabilization	Time frame to apply erosion controls
Any disturbed areas within 50 feet of a surface water of the state and not at final grade	Within two days of the most recent disturbance if the area will remain idle for more than 14 days
Any disturbed areas that will be dormant for more than 14 days but less than one year, and not within 50 feet of a surface water of the state	Within seven days of the most recent disturbance within the area
Disturbed areas that will be idle over winter	For residential subdivisions, disturbed areas must be stabilized at least seven days prior to transfer of permit coverage for the individual lot(s). Prior to the onset of winter weather

**ACCEPTABLE EROSION CONTROL TIMETABLE**

	J	F	M	A	M	J	J	A	S	O	N	D
TEMPORARY SEEDING			●	●	●	●	●	●	●	●		
PERMANENT SEEDING			●	●	●	●	●	●	●	●		
LANDSCAPING										●	●	●
MULCHING	●	●	●	●	●	●	●	●	●	●	●	●
MAINTENANCE	●	●	●	●	●	●	●	●	●	●	●	●

EASEMENT REFERENCE			REVISIONS		
CITY NO.	COUNTY RECORDER	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE
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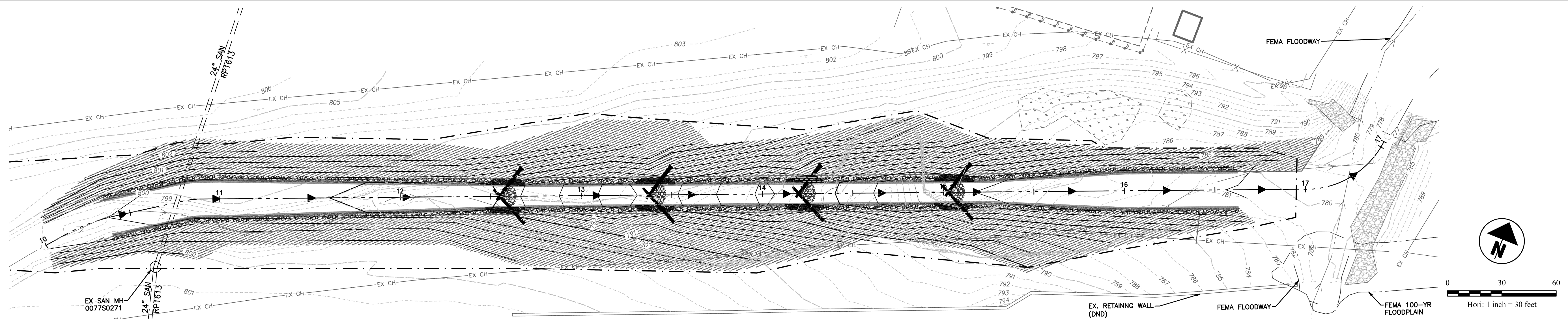
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7965 N HIGH ST., SUITE 050  
 COLUMBUS, OH 43235

PROJECT TITLE:			
DRY RUN STREAM BANK RESTORATION AND REPAIR STORMWATER POLLUTION PREVENTION PLAN NOTES			
DIVISION USE ONLY		OWNER	
		CONTRACTOR	
		INSPECTOR	
		AGREEMENT	COMPLETED
		RPD	CKD
		CLD	CON. DR.

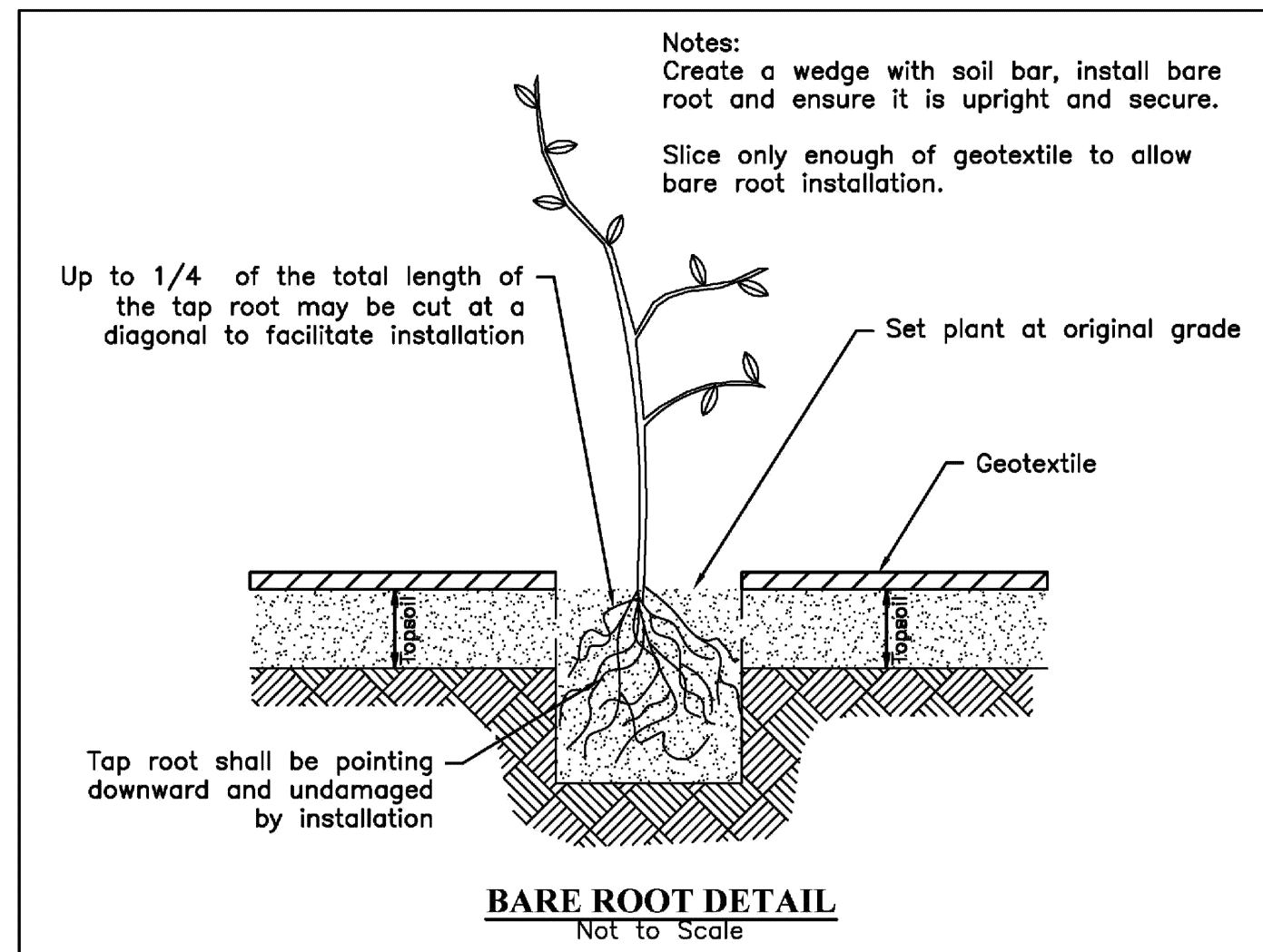
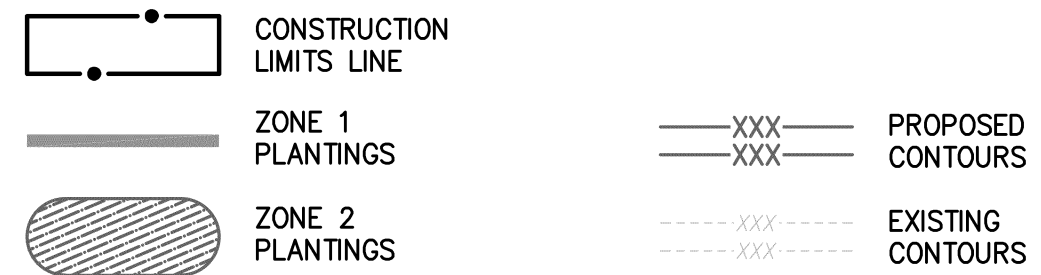
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SCALE: 1"=500'	SHEET: 12 OF 15
CONTRACT DRAWING NO. CC-20942	RECORD PLAN NO.





PLANT MATERIAL LIST								
ZONE	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	SPACING	QUANTITY		
ZONE 1	SALIX AMYGDALOIDES	PEACHLEAVED WILLOW	2' MIN.	LIVE STAKES	3 ROWS W/ 2' SPACING	229		
	SALIX DISCOLOR	PUSSY WILLOW	2' MIN.	LIVE STAKES		229		
	SALIX INTERIOR	SANDBAR WILLOW	2' MIN.	LIVE STAKES		229		
	SALIX NIGRA	BLACK WILLOW	2' MIN.	LIVE STAKES	229			
ZONE 2 - SHRUBS	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	2' MIN.	LIVE STAKES	1 ROW W/ 4' SPACING	153		
	AMELANCHIER LAEVIS	SERVICEBERRY	12" MIN.	BARE ROOT			587 PER ACRE	170
	CORNUS RACEMOSA	GRAY DOGWOOD	12" MIN.	BARE ROOT				
	CORNUS SERICEA	RED-OSIER DOGWOOD	12" MIN.	BARE ROOT				
	HAMAMELIS VIRGINIANA	WITCHAZEL	12" MIN.	BARE ROOT				
	RHUS AROMATICA	FRAGRANT SUMAC	12" MIN.	BARE ROOT				
	RHUS TYPHINA	STAGHORN SUMAC	12" MIN.	BARE ROOT				
	SAMBUCUS CANADENSIS	ELDERBERRY	12" MIN.	BARE ROOT				
	VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	12" MIN.	BARE ROOT				
	VIBURNUM PRUNIFOLIUM	BLACKHAW	12" MIN.	BARE ROOT				
ZONE 2 - TREES	ACER SACCHARUM	SUGAR MAPLE	12" MIN.	BARE ROOT	587 PER ACRE	170		
	CELTIS OCCIDENTALIS	COMMON HACKBERRY	12" MIN.	BARE ROOT				
	GLEDITSIA TRIACANTHOS 'INERMIS'	HONEY LOCUST (THORNLESS)	12" MIN.	BARE ROOT				
	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	12" MIN.	BARE ROOT				
	POPULUS DELTOIDES	EASTERN COTTONWOOD	12" MIN.	BARE ROOT				
	QUERCUS BICOLOR	SWAMP WHITE OAK	12" MIN.	BARE ROOT				
	QUERCUS RUBRA	RED OAK	12" MIN.	BARE ROOT				
QUERCUS PALUSTRIS	PIN OAK	12" MIN.	BARE ROOT					

**LANDSCAPE PLAN LEGEND**



**LIVE STAKES:**  
 1. MATERIAL: LIVE STAKE MATERIAL SHALL BE DORMANT AND GATHERED LOCALLY (WITHIN OR IN PROXIMITY TO THE PROJECT SITE) OR PURCHASED FROM A REPUTABLE COMMERCIAL SUPPLIER. THE CONTRACTOR MAY CONTACT ERNST CONSERVATION SEEDS AT 814-336-5191 (FAX: 800-873-3321) AS A SUPPLIER OF LIVE STAKE MATERIAL OR APPROVED EQUAL. THIS MATERIAL SHALL BE PLANTED ONLY DURING ITS NATURAL DORMANCY PERIOD, EXTENDING FROM NOVEMBER 15TH THROUGH MARCH 31ST.

STAKES SHALL BE 1/2 TO 2-INCHES IN DIAMETER, 2 FEET IN LENGTH, AND LIVING BASED ON THE PRESENCE OF YOUNG BUDS AND/OR GREEN BARK. PRIOR TO INSTALLATION, THE STAKES SHALL BE CUT SO THAT THEY ARE ANGLED ON THE BOTTOM AND FLUSH ON THE TOP. SEE STREAM PLANTING TABLE AND MATERIAL LIST FOR STREAM PLANTING ZONES.

ALL HARVESTED OR PURCHASED LIVE STAKE MATERIAL SHALL BE PRESERVED IN A COOL, MOIST ENVIRONMENT UNTIL INSTALLATION. THEY MUST EITHER BE PACKED IN MOIST SAWDUST OR PLACED ANGLED END DOWN WITHIN A WETLAND OR POND EDGE. IF STORING IN A WETLAND OR POND EDGE, LIVE STAKES MUST BE SECURED SO THEY DO NOT FALL OVER OR FLOAT AWAY. PLANT MATERIAL THAT HAS BEEN ALLOWED TO DRY OUT OR IS NOT PRESERVED IN A DORMANT STATE PRIOR TO INSTALLATION SHALL BE DISCARDED AND REPLACED.

SEE STREAM PLANTING TABLE ON THIS SHEET FOR ADDITIONAL LIVE STAKE MATERIAL DETAILS.

2. INSTALLATION: LIVE STAKES SHALL BE INSTALLED IN TWO (2) ROWS PER STREAM BANK, WITH TWO (2) FOOT SPACING. THREE-FOURTHS OF THE STAKE IS TO BE EMBEDDED WITHIN THE CHANNEL BANK. THE ANGLE OF THE EMBEDDED LIVE STAKE TO THE CHANNEL BANK SHALL BE BETWEEN 30 AND 60 DEGREES. VERTICAL INSTALLATION IS NOT ACCEPTABLE AND WILL BE REJECTED. LIVE STAKES THAT BECOME BENT OR BROKEN DURING INSTALLATION SHALL BE DISCARDED AND REPLACED. IF SOIL IS COMPACTED AND LIVE STAKES CAN NOT BE PUSHED TO APPROPRIATE DEPTH, THE CONTRACTOR SHALL USE A FORM PIN OR EQUIVALENT TO MAKE A PILOT HOLE BEFORE INSTALLING THE LIVE STAKE MATERIAL.

3. PAYMENT: THE COST OF ALL LABOR AND MATERIALS ASSOCIATED WITH THE INSTALLATION OF LIVE STAKES ALONG THE CHANNEL BANKS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM SPECIAL: LIVE STAKES, AS PER PLAN.

NATIVE GRASS SEEDING TABLE			APPLICATION RATE
<b>TYPE</b>			
<b>OVERSEED:</b>			
Grain Oats			30 lbs/acre
<b>PERMANENT SEED:</b> Native Cool Season Grass Custom Seed Mix			
<b>COMMON NAME</b>	<b>SCIENTIFIC NAME</b>	<b>PERCENTAGE</b>	30 lbs/acre
Creeping red fescue	<i>Festuca rubra</i>	55	
Autumn bentgrass	<i>Agrostis perennans</i>	15	
Canada wildrye	<i>Elymus canadensis</i>	15	
Virginia wildrye	<i>Elymus virginicus</i>	15	
Permanent Grass Seeding shall occur throughout the Conservation Easement (Zones 1, 2, and 3).			

**CONSERVATION EASEMENT SEEDING INSTALLATION TABLE**

**SCENARIO 1:** During Permanent Seeding Window (September 15 - October 30)  
 1) Install permanent seed and over seed (grain oats) using slit seeder or drill across entire conservation easement area.  
 2) Seed under all matting.  
 3) Mulch as directed in all areas except under erosion control matting.  
 4) Install erosion control matting where directed.

**SCENARIO 2:** Outside Permanent Seeding Window  
 1) Install over seed (oats) using slit seeder or drill across entire conservation easement area.  
 2) Seed under all matting.  
 3) Mulch as directed in all areas except under erosion control matting.  
 4) Install erosion control matting where directed.  
 5) Return to install permanent seed September 15 - October 30.  
 6) Mow over seed cover to 2 inches or less across entire conservation easement area.  
 7) Install permanent seed in all areas outside erosion control matting using slit seeder or drill. Do not use mulch or temporary over seed.  
 8) Complete permanent seeding over matting using either Option A or Option B. The objective is to get proper seed/soil contact through the existing matting.

**OPTION A:** Broadcast  
 • Increase permanent seeding rate by 20%.  
 • Broadcast permanent seed over matting.  
 • Spray with wide, non-concentrated pressured water to push seed through matting.

**OPTION B:** Hydroseeding  
 • Increase permanent seeding rate by 20%.  
 • Apply seed hydraulically over matting, using water alone for the carrying agent (no tackifiers or mulch).

**NOTES:**

- PRIOR TO SPREADING TOPSOIL ON PLANTING AREAS, CONTRACTOR SHALL DISC SUBGRADE TO A DEPTH OF 3 TO 4 INCHES.
- FINAL SPECIES SELECTION WILL BE BASED UPON AVAILABILITY AND SHALL BE APPROVED BY THE DESIGN ENGINEER PRIOR TO ORDERING THE MATERIAL.
- BARE ROOT TREE AND SHRUBS SHALL MEET THE MINIMUM HEIGHT REQUIREMENTS AND SHALL AT LEAST 2-YEAR AGED SEEDLINGS. DOCUMENTATION FROM SUPPLIER MUST INCLUDE HEIGHT AND AGE WHEN REQUESTING APPROVALS FROM THE ENGINEER.
- THE ROOTS OF ALL BARE ROOT TREES AND SHRUBS SHALL BE DIPPED INTO A MYCORRHIZAL FUNGI SOLUTION IMMEDIATELY PRIOR TO INSTALLATION. USE 'PHC ROOT DIP' OR APPROVED EQUAL LANDSCAPER TO PROVIDE PHOTODOCUMENTATION OF THIS PROCESS DURING INSTALLATION.
- ENGINEER SHALL APPROVE OF FINAL GRADING PRIOR TO PLANTING.
- OVERSEED AND PERMANENT SEEDING TO OCCUR THROUGHOUT THE ENTIRE CONSERVATION EASEMENT AND STREAM CORRIDOR AREAS (ZONES 1 AND 2). SEE PERMANENT GRASS SEEDING TABLE AND CONSERVATION EASEMENT SEEDING INSTALLATION TABLE ON THIS SHEET.

**LANDSCAPING WARRANTY**

- Required Warranty**
- Live stakes 80% at 12 months from installation
  - Bare root trees/shrubs 80% at 12 months from installation

EASEMENT REFERENCE			REVISIONS			PLAN PREPARED BY:
CITY NO.	COUNTY RECORDER	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE	 ENVDESIGNGROUP.COM   800-835-1390 7965 N HIGH ST., SUITE 050 COLUMBUS, OH 43235
VOL.	PAGE					

PROJECT TITLE:				CITY OF COLUMBUS DEPARTMENT OF RECREATION AND PARKS DIVISION USE ONLY	
DRY RUN STREAM BANK RESTORATION AND REPAIR LANDSCAPE PLAN					
DIVISION USE ONLY		OWNER			
		CONTRACTOR			
		INSPECTOR			
		AGREEMENT		COMPLETED	
		RPD		CKD CON. DR.	
SCALE: HORIZ: 1"=30'				SHEET: 14 OF 15	
CONTRACT DRAWING NO. CC-20942				RECORD PLAN NO.	

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