

**PROJECT 3019**  
**Reviving the Heart of Pittsburg Pride**

**ADDENDUM NO. 2**

This addendum consists of fifteen (15) pages amending the Contract Documents. All prospective bidders for the above-referenced project are to be aware that the following changes, additions and/or clarifications shall be included as an integral part of the Contract Documents for the above-referenced project, and that they are bounded by all conditions set forth therein.

**ALL PROSPECTIVE BIDDERS** are hereby notified that changes to the bidding documents for Project 3019; Reviving the Heart of Pittsburg Pride are to be made as described hereinafter.

**ITEM 1 – DRAWING REVISION: SHEETS C4.0 to C4.2, C6.0 to C6.7, & C7.1.**

See revised Sheets C4.0 to C4.2, C6.0 to C6.7, & C7.1 as shown in Attachment 1.  
Sheets C-4.0 through C-4.3, slope gradation callouts have been added to the plans.  
Sheets C6.0 to C6.7, see revised landscape and hydroseeding notes.  
Sheet C-7.1, see revised detail 4.

**BID OPENING DATE**– The bid opening date of **July 31, 2023, at 2:00 PM** remains the same with this addendum. The bid opening will be at 65 Civic Avenue, Pittsburg, CA.

**BIDDERS MUST SIGN AND ATTACH** one (1) copy of this addendum document to the proposal as acknowledgment of receipt of these instructions and that said addendum was properly evaluated in the proposal.

**ANY PROPOSAL NOT IN COMPLIANCE WITH THIS ADDENDUM MAY BE REJECTED.**



Issued: 7/26/23

\_\_\_\_\_  
JOHN SAMUELSON  
PUBLIC WORKS DIRECTOR/CITY ENGINEER

Addendum No. 2, Project 3019 Reviving the Heart of Pittsburg Pride is hereby acknowledged and was considered in this Contract Proposal.

\_\_\_\_\_  
Bidder's Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Firm Name

\_\_\_\_\_  
Mailing Address

\_\_\_\_\_  
City/State/Zip+4

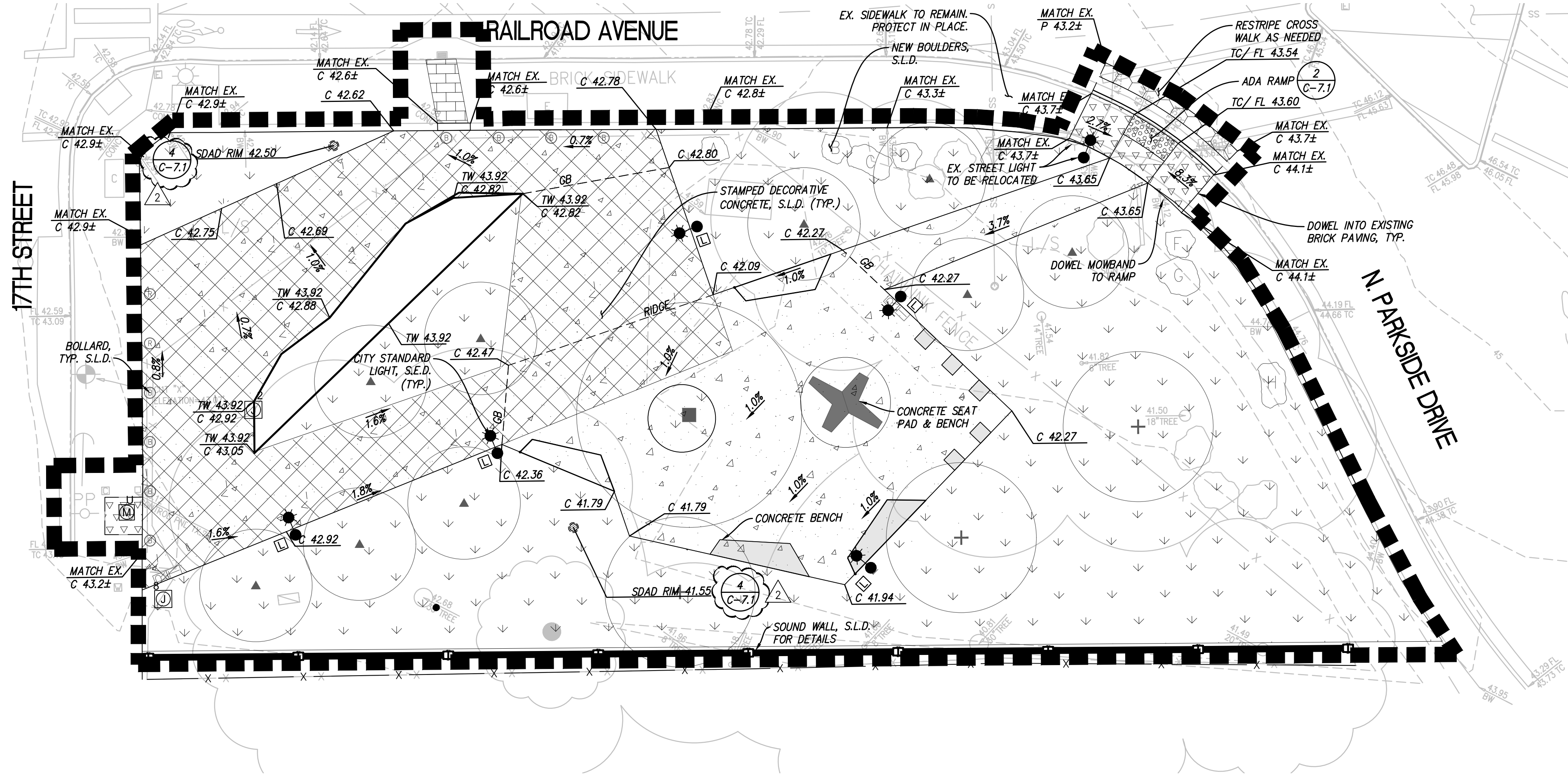
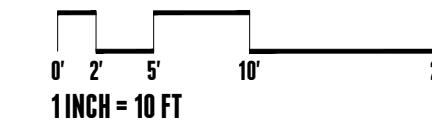
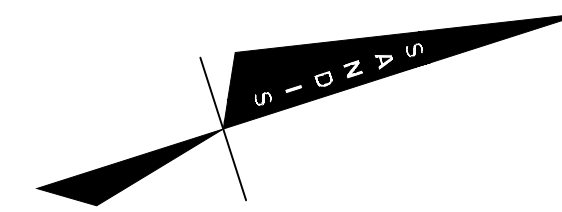
File: S:\222489\44\_ENGINEERING - Railroad Ave\2\_PLAN\_SETS\3\_SHEET\_SET\ONSTIE\C-4.0-GRADING.dwg Date: Jul 25, 2023 - 4:40 PM

### ADA NOTES

- SLOPED WALKS ALONG THE DESIGNATED ADA PATH OF TRAVEL SHALL NOT EXCEED A SLOPE OF 1:20 (5%) WITHOUT HANDRAILS. THE MAXIMUM SLOPE WITH HANDRAILS OR FOR CURB RAMPS IS 1:12 (8.33%). LEVEL LANDINGS ARE REQUIRED AT THE TOP AND BOTTOM OF ALL SLOPED WALKWAYS AND RAMPS.
- WALKWAYS ON ANY PATH OF TRAVEL SHALL HAVE A MINIMUM WIDTH OF 48". WALKWAYS AND ADA PARKING STALLS OR LOADING ZONES SHALL HAVE A 2% MAXIMUM CROSS SLOPE.
- A LEVEL LANDING (2% MAX SLOPE) SHALL BE PROVIDED AT ALL ACCESSIBLE ENTRANCES TO BUILDINGS. THE LANDINGS SHALL HAVE A MINIMUM WIDTH OF 60" AND A MINIMUM DEPTH OF 60" WHEN THE DOOR OPENS INTO THE BUILDING, AND 42" PLUS THE WIDTH OF THE DOOR WHEN THE DOOR OPENS ONTO THE LANDING.
- RAMPS GREATER THAN 1:20 SLOPE AND EXCEEDING 30" IN VERTICAL ELEVATION CHANGE SHALL HAVE INTERMEDIATE LEVEL LANDINGS.
- THE NOTES ABOVE ARE A PARTIAL LIST OF CBC REQUIREMENTS INTENDED FOR REFERENCE WHERE QUESTIONS IN GRADING OR SITE PLAN INTENT MAY ARISE, ALL WORK ALONG THE ADA PATH OF TRAVEL MUST CONFORM TO THE CURRENT CODE.

### GRADING PLAN LEGEND

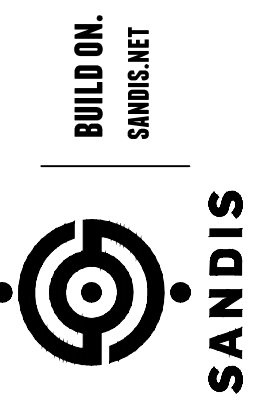
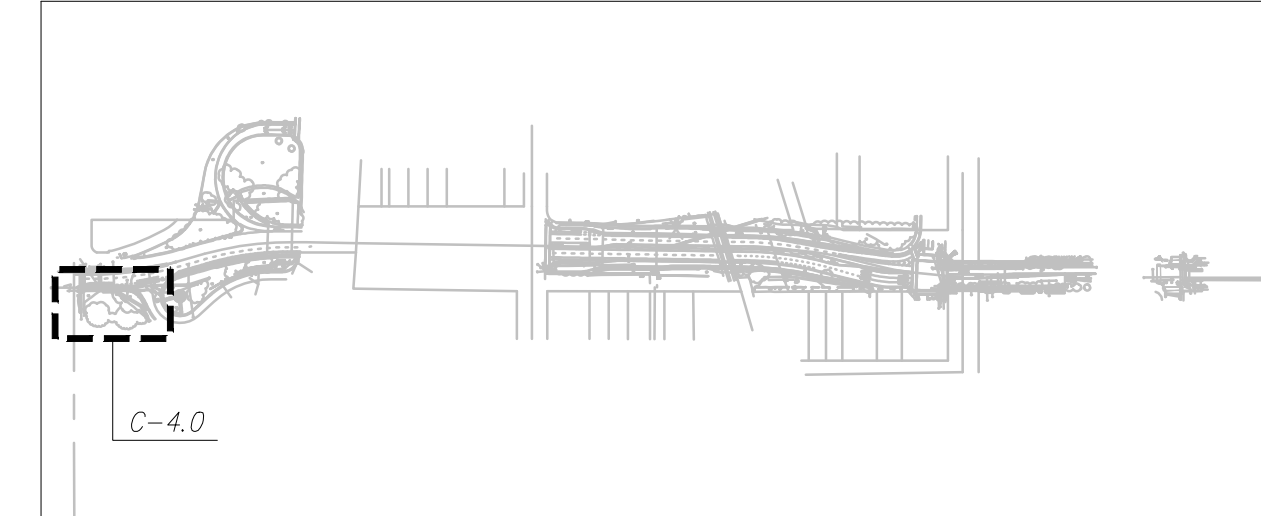
	PEDESTRIAN CONCRETE PAVING		CONCRETE SEAT PAD
	VEHICULAR CONCRETE PAVING		AC DEEPLIFT
	LANDSCAPE AREA, SEE LANDSCAPE PLANS FOR DETAILS		COUNTY STANDARD SIDEWALK
	LIMIT OF WORK LINE		BRICK PAVERS, SEE LANDSCAPE PLANS FOR DETAILS
	GRADE BREAK		
	FLOWLINE		
	TREE PROTECTION ZONE		
	PROPOSED TREES, SEE LANDSCAPE PLANS FOR DETAILS		



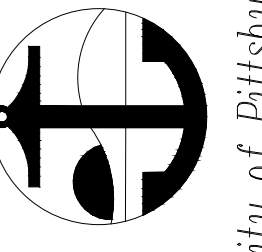
### GENERAL GRADING NOTES

- PROVIDE POSITIVE SURFACE DRAINAGE AWAY FROM ALL STRUCTURES BY SLOPING ALL HARDSCAPE SURFACES AT 2% AND LANDSCAPE SURFACES AT 5% AWAY FROM STRUCTURES UNLESS OTHERWISE NOTED ON PLANS.
- STRUCTURE WALLS: PER CBC 2304.11.2.2 (WOOD SUPPORTED BY FOUNDATION) PROVIDE 8" MINIMUM CLEAR TO EXTERIOR GRADE.
- ALL FILL, IMPORT SOILS AND GRADING SHALL BE IN CONFORMANCE WITH THE GEOTECHNICAL REPORT PERFORMED BY BSK ASSOCIATES, DATED APRIL 26, 2023.
- COORDINATE THE PLACEMENT OF ALL SLEEVES FOR LANDSCAPE IRRIGATION (WATER AND CONTROL WIRING) AND SITE LIGHTING PRIOR TO THE PLACEMENT OF ANY ASPHALT, BASEROCK OR CONCRETE SURFACING. SEE LANDSCAPING AND SITE ELECTRICAL DRAWINGS.
- ROUGH GRADING TO BE WITHIN 0.1' AND FINISH GRADES ARE TO BE WITHIN 0.05', HOWEVER CONTRACTOR SHALL NOT CONSTRUCT ANY IMPROVEMENTS THAT WILL CAUSE WATER TO POND OR NOT MEET REQUIREMENTS IN GRADING NOTE #1 OR THE ADA REQUIREMENTS BELOW. DO NOT ADJUST GRADES ON THIS PLAN WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER/ARCHITECT.
- THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO CONFORM TO THE LINES, GRADES, SECTIONS, AND DIMENSIONS AS SET FORTH ON THESE PLANS. ALL GRADED AREAS SHALL CONFORM TO THE VERTICAL ELEVATIONS SHOWN WITH A TOLERANCE OF ONE-TENTH OF A FOOT. WHERE GRADED AREAS DO NOT CONFORM TO THESE TOLERANCES, THE CONTRACTORS SHALL BE REQUIRED TO DO CORRECTIVE GRADING, AT NO EXTRA COST TO THE CLIENT/OWNER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE GROUND ELEVATIONS AND OVERALL TOPOGRAPHY OF THE SITE PRIOR TO THE START OF CONSTRUCTION AS TO THE ACCURACY BETWEEN THE WORK SET FORTH ON THESE PLANS AND THE WORK IN THE FIELD. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND CIVIL ENGINEER IN WRITING PRIOR TO START OF CONSTRUCTION WHICH MAY REQUIRE CHANGES IN DESIGN AND/OR AFFECT THE EARTHWORK QUANTITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING IMPROVEMENTS OF UNDERGROUND FACILITIES DAMAGED DURING THE CONSTRUCTION PERIOD.
- THE RISE/RUN/STEP COUNT IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY ELEVATIONS AND BUILDING CODE COMPLIANCE PRIOR TO ANY WORK.
- AREAS LACKING TOPOGRAPHIC INFORMATION (ELEVATIONS) HAVE BEEN INTERPOLATED USING STANDARD ENGINEERING METHODS. CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS AT CONFORMS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REPORT BACK ANY DISCREPANCIES TO THE CIVIL ENGINEER.
- ADJUST ANY MANHOLE OR UTILITY STRUCTURES TO PROPOSED GRADE PRIOR TO INSTALLING FINAL LIFT OF AC OR POURING CONCRETE.

KEY MAP



ACCEPTED FOR USE:  
JOHN SAMUELSON  
City Engineer

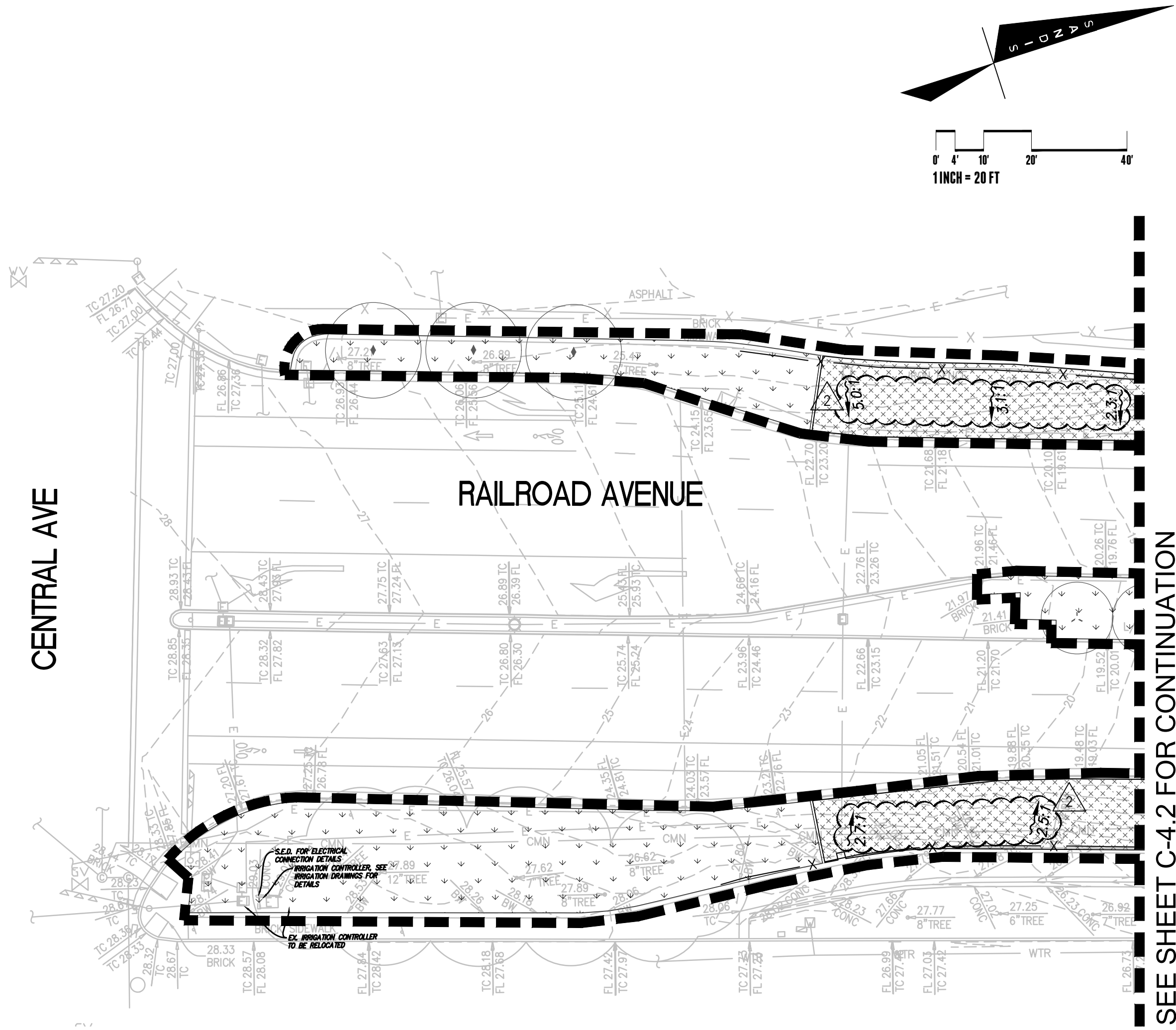


REVIVING THE HEART OF  
PITTSBURG PRIDE  
GRADING PLAN

BY	DRAWN: T.Z.
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NT	REVIEWED: C.C., T.Z.
	DATE: 7/7/23
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7/25/23	2	BID ADDENDUM 2

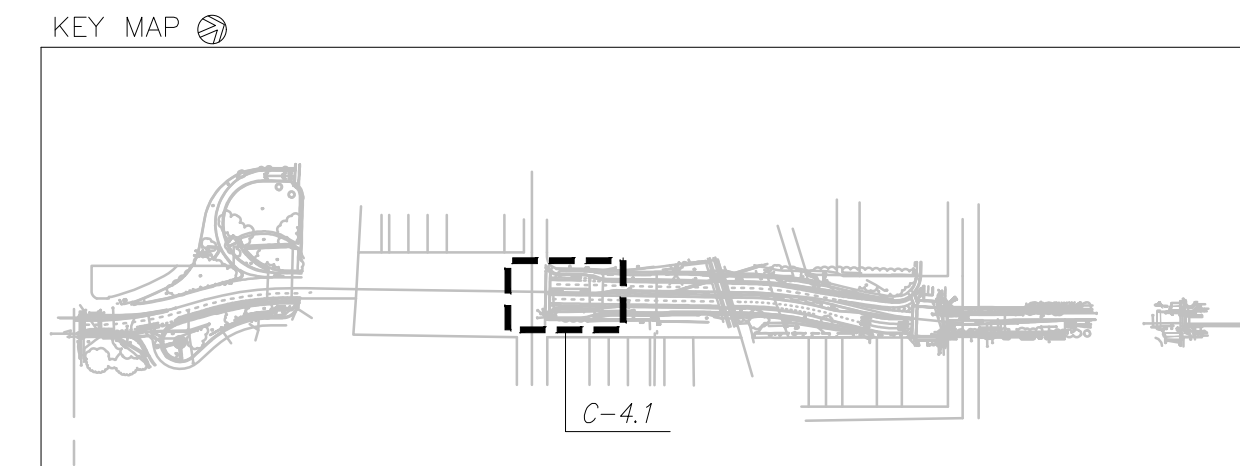
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DWG. NO. C-4.0



### GRADING PLAN LEGEND

- GEOCEL SYSTEM GRAVEL, SEE LANDSCAPE PLANS FOR DETAILS
- LANDSCAPE AREA, SEE LANDSCAPE PLANS FOR DETAILS
- LIMIT OF WORK LINE
- GRADE BREAK
- FLOWLINE
- TREE PROTECTION ZONE
- PROPOSED TREES, SEE LANDSCAPE PLANS FOR DETAILS

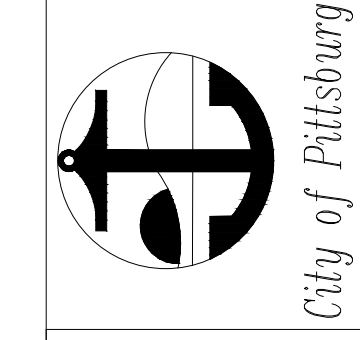
SEE SHEET C-4.2 FOR CONTINUATION



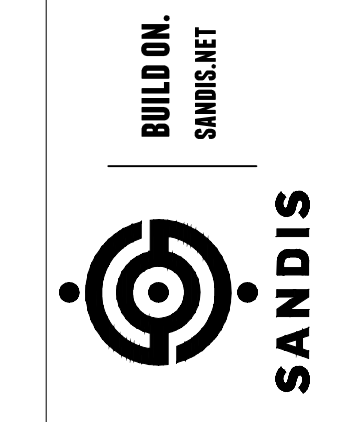
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## REVIVING THE HEART OF PITTSBURG PRIDE

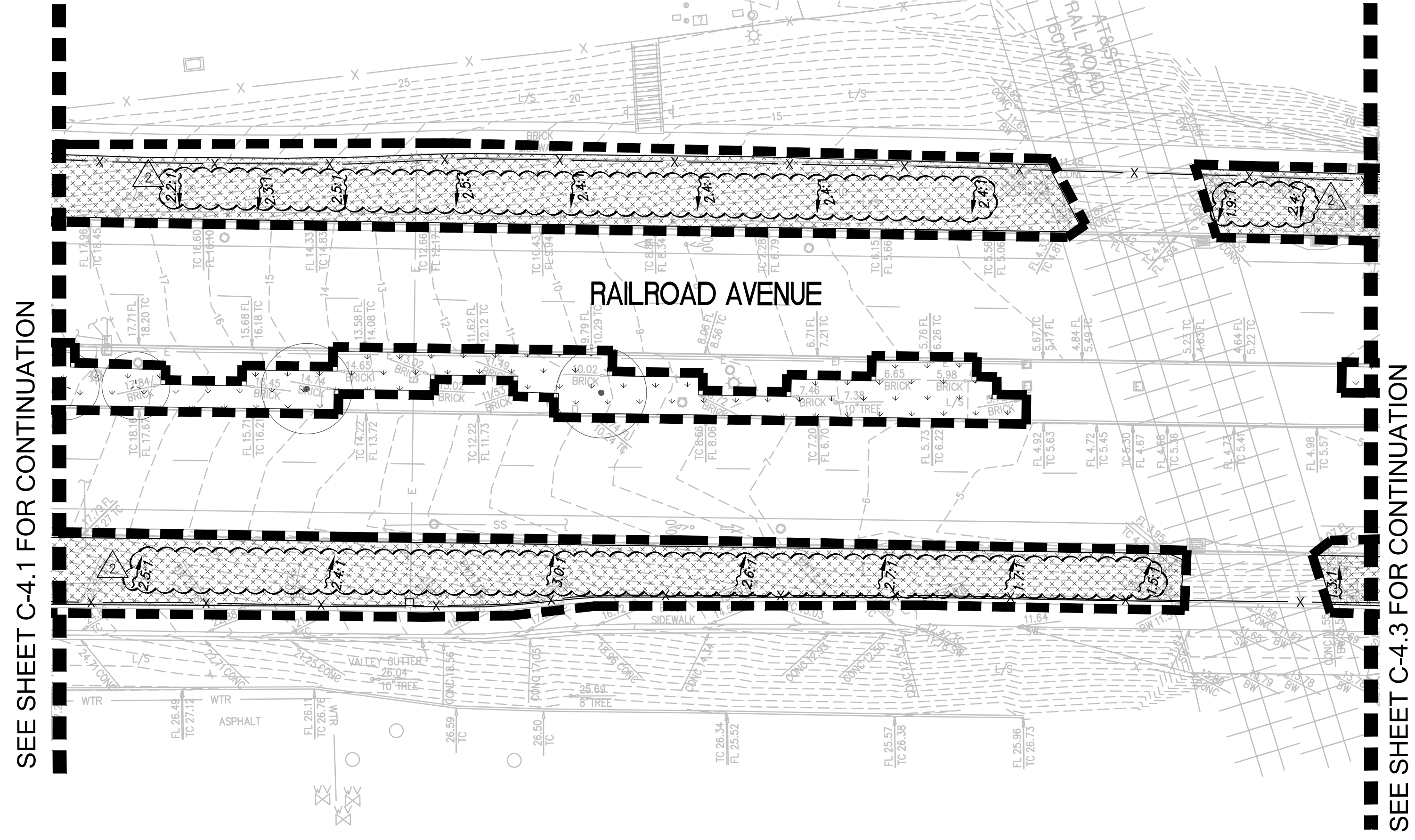
### GRADING PLAN



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 City Engineer  
 Date: \_\_\_\_\_



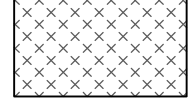
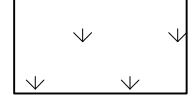

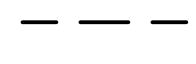
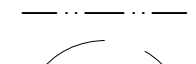






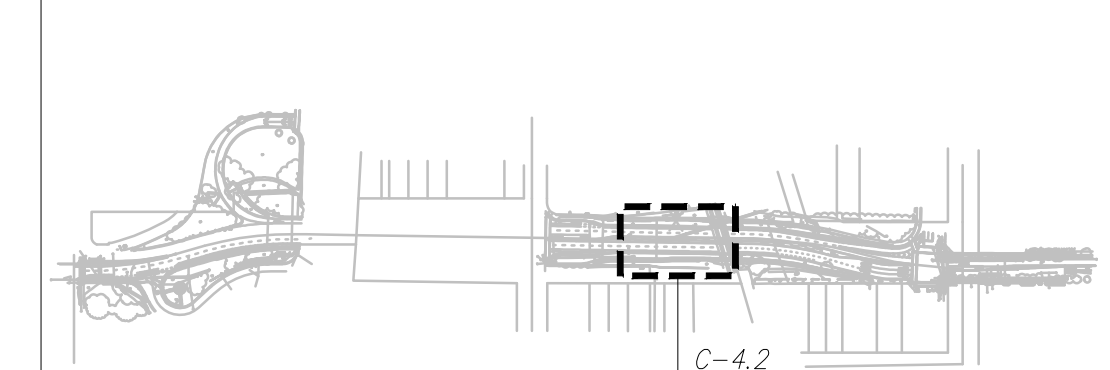
SEE SHEET C-4.1 FOR CONTINUATION

SEE SHEET C-4.3 FOR CONTINUATION

**GRADING PLAN LEGEND**

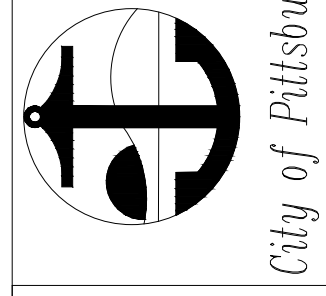
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-  LANDSCAPE AREA, SEE LANDSCAPE PLANS FOR DETAILS
-  LIMIT OF WORK LINE
-  GRADE BREAK
-  FLOWLINE
-  TREE PROTECTION ZONE
-  PROPOSED TREES, SEE LANDSCAPE PLANS FOR DETAILS

KEY MAP

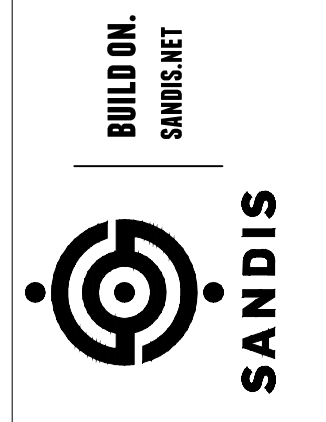


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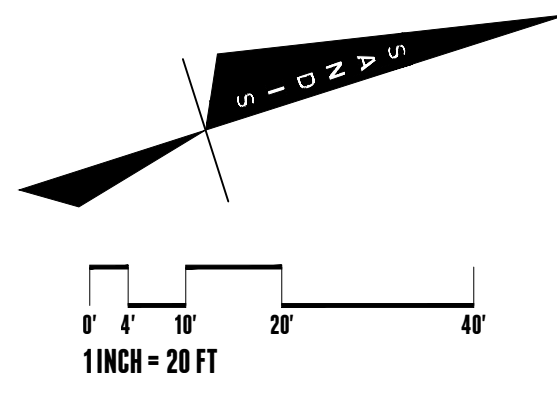
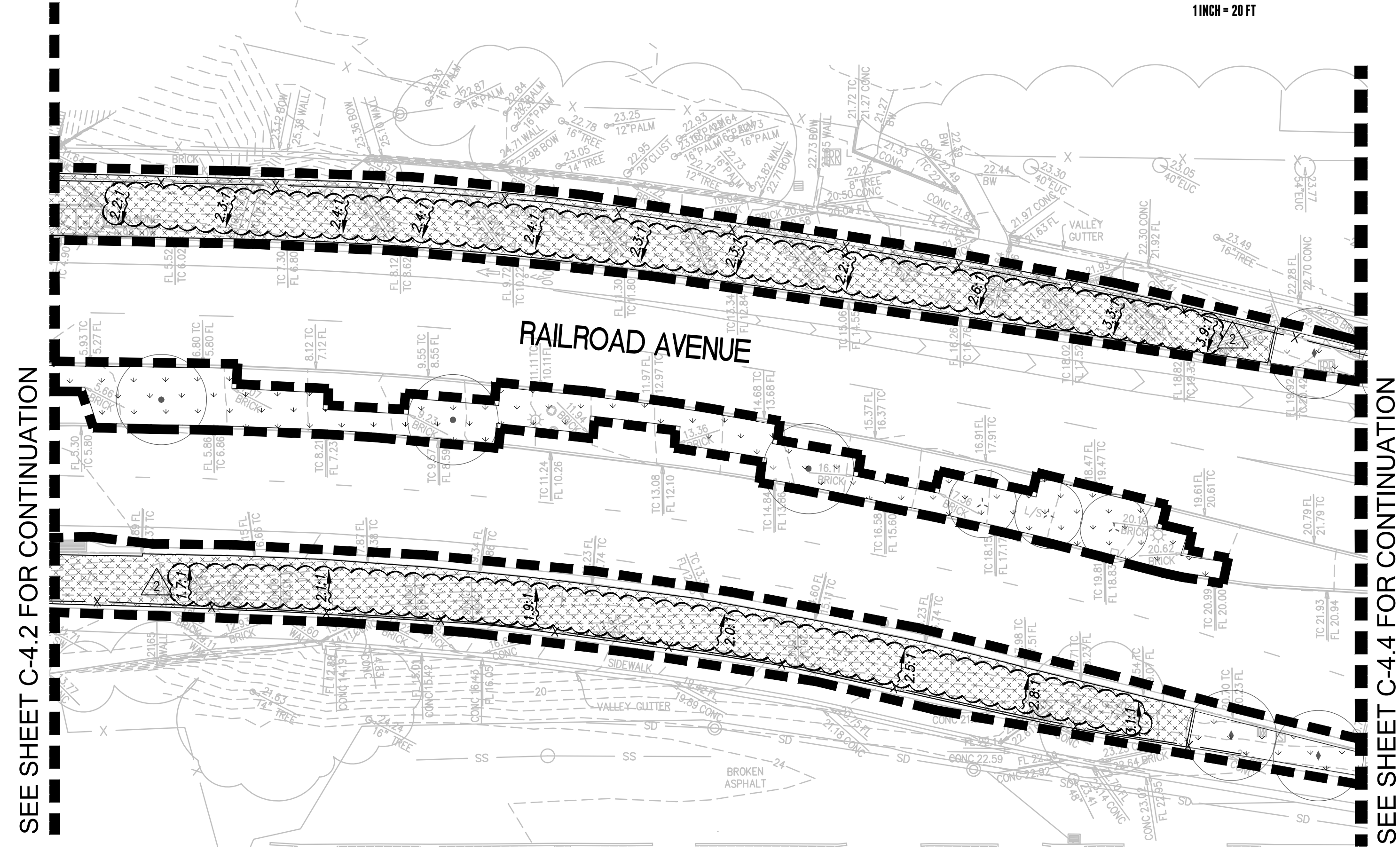
REVIVING THE HEART OF  
PITTSBURG PRIDE  
GRADING PLAN



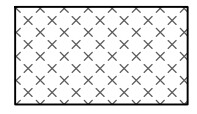
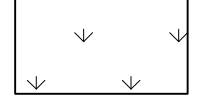

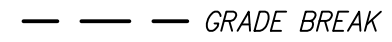
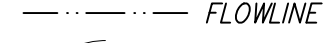
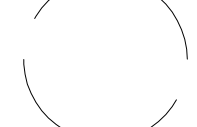

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JOHN SAMUELSON  
City Engineer  
Date: \_\_\_\_\_



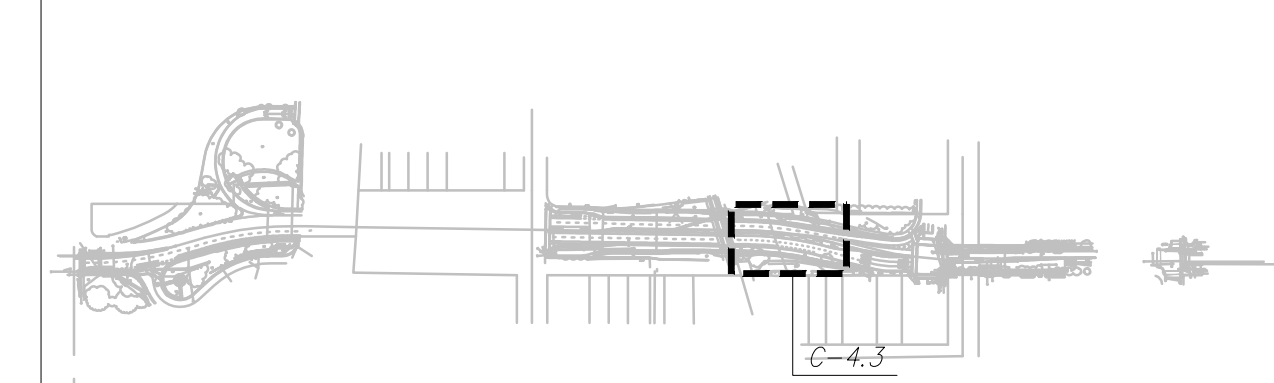
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**C-4.2**



**GRADING PLAN LEGEND**

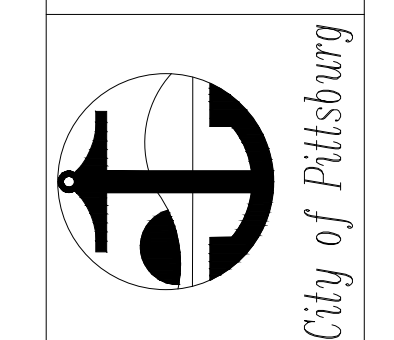
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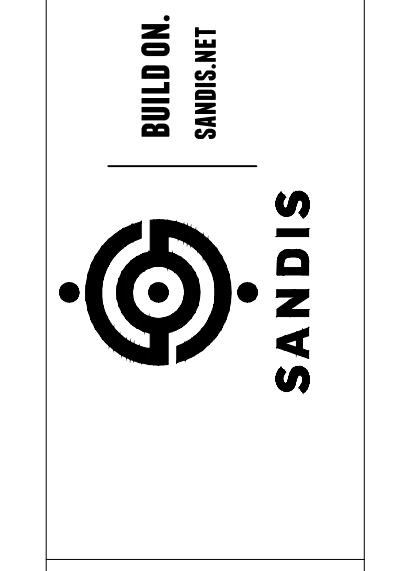


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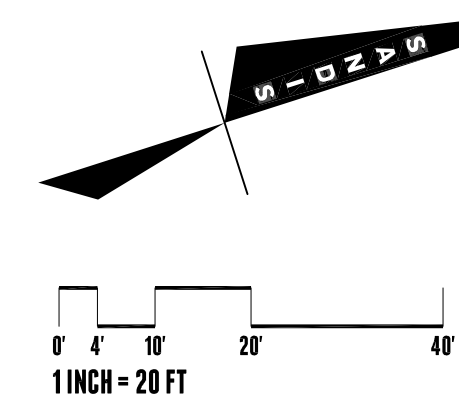
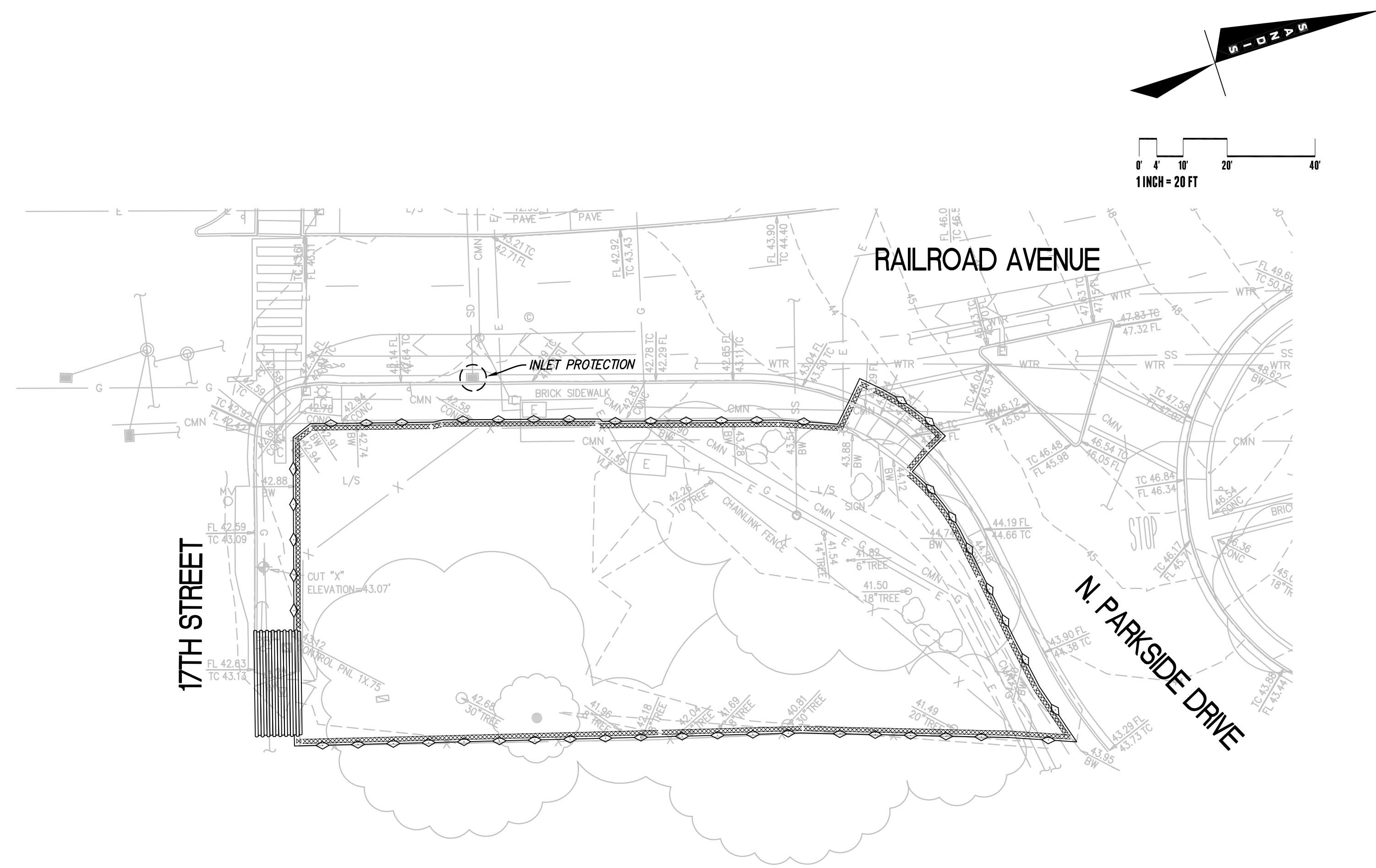
REVIVING THE HEART OF  
PITTSBURG PRIDE  
GRADING PLAN



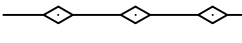

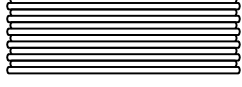


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City Engineer  
Date: \_\_\_\_\_



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**C-4.3**



**EROSION CONTROL LEGEND**

-  SILT FENCE
-  FIBER ROLLS
-  CONSTRUCTION ENTRANCE
-  INLET PROTECTION
-  EXISTING TREE TO REMAIN, PROTECT IN PLACE. SEE LANDSCAPE PLANS AND ARBORIST REPORT FOR TREE PROTECTION DETAILS.

**EROSION CONTROL NOTES**

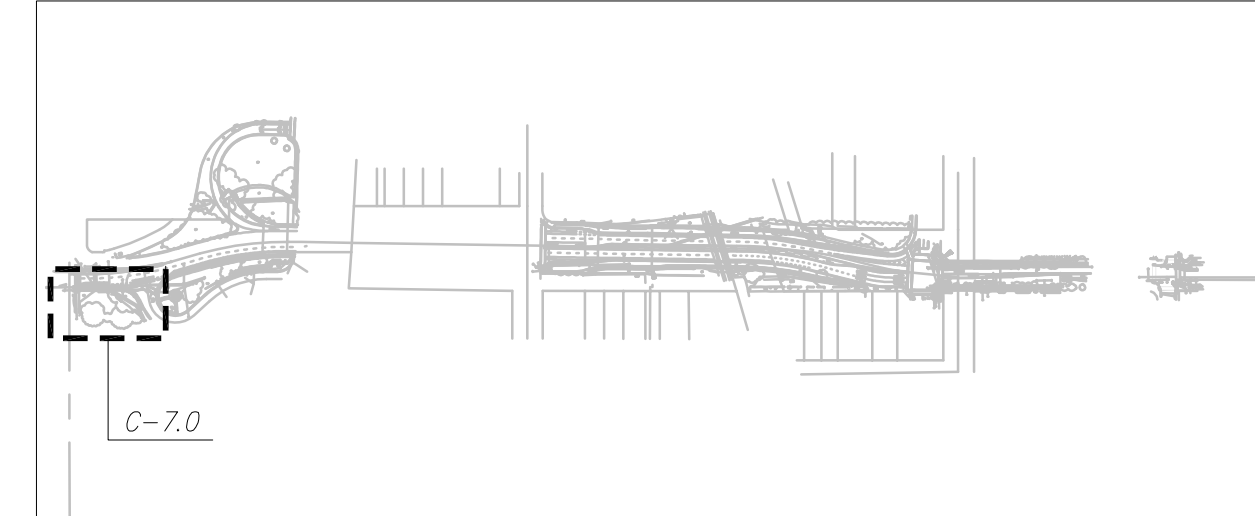
1. THIS PLAN IS FOR EROSION CONTROL DURING CONSTRUCTION IF NO SWPPP IS REQUIRED. IF A SWPPP FOR THE PROJECT HAS BEEN ISSUED THE PROJECT SWPPP OVERRIDES ANYTHING SHOWN ON THIS PLAN.
2. TEMPORARY CONSTRUCTION ENTRANCE/EXIT LOCATION SHOWN IS APPROXIMATE. CONTRACTOR TO PROVIDE LOCATION WHERE APPROPRIATE.
3. THIS PLAN REPRESENTS POSSIBLE WATER POLLUTION CONTROL MEASURES INCLUDING EROSION CONTROL AND SEDIMENT CONTROL.
4. EXISTING SURFACES SHALL BE UNDISTURBED TO THE EXTENT PRACTICAL.
5. GROUND WATER SHALL NOT BE DISCHARGED WITH STORM WATER. GROUND WATER DEWATERING OPERATIONS SHALL BE COORDINATED AS NEEDED WITH OWNER.
6. CONTRACTOR SHALL PROVIDE EFFECTIVE SOIL COVER FOR AREAS OF CONSTRUCTION ACTIVITY THAT HAVE BEEN DISTURBED AND ARE NOT SCHEDULED TO BE ACTIVE FOR AT LEAST 14 DAYS.
7. ALL EROSION CONTROL AND SEDIMENT CONTROLS TO BE OBTAINED INSTALLED AND MAINTAINED AS REQUIRED AS REQUIRED BY LOCAL JURISDICTION OR CONSTRUCTION GENERAL PERMIT.
8. CONTRACTOR TO INSTALL RUN-ON AND RUN-OFF CONTROL MEASURES ACCORDING TO PLANS OR AS NECESSARY TO ENSURE SEDIMENT IS NOT TRANSPORTED FROM SITE.
9. CONTRACTOR TO PROVIDE BACK-UP EROSION PREVENTION MEASURES (SOIL STABILIZATION) WITH SEDIMENT CONTROL MEASURES SUCH AS STRAW WATTLES, SILT FENCE, GRAVEL INLET FILTERS, AND/OR SEDIMENT TRAPS OR BASINS. ENSURE CONTROL MEASURES ARE ADEQUATE, IN PLACE, AND IN OPERABLE CONDITIONS. SEDIMENT CONTROLS, INCLUDING INLET PROTECTION, ARE NECESSARY BUT SHOULD BE A SECONDARY DEFENSE BEHIND GOOD EROSION CONTROL MEASURES.
10. ALL CONCRETE TRUCKS TO USE CHUTE WASH BUCKETS FOR CONCRETE RINSE. ALL CONCRETE PUMPS TO CAPTURE CONCRETE RINSE IN SECONDARY CONTAINMENT AND PROPERLY DISPOSE.
11. STREET SWEEPING SHALL BE CHECKED DAILY TO ENSURE DEPOSITED SEDIMENT AND DEBRIS DOES NOT ENTER THE STORM DRAIN SYSTEM. USE REGENERATIVE VACUUM STREET CLEANER TO MITIGATE AIR AND WATER POLLUTION.
12. RUNOFF THAT HAS CONTACTED AMENDED SOIL AREAS SHALL NOT BE ALLOWED TO LEAVE THE SITE OR ENTER THE STORM DRAIN SYSTEM.

**LANDSCAPE NOTE**

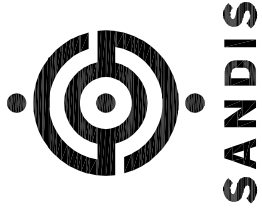
THE CONTRACTOR SHALL BE RESPONSIBLE HYDROSEEDING ANY SOIL DISTURBED AREAS REQUIRING TEMPORARY PROTECTION UNTIL A PERMANENT STABILIZATION IS ESTABLISHED. DISTURBED AREAS THAT WILL BE REDISTURBED FOLLOWING AN EXTENDED PERIOD OF INACTIVITY AND AT THE END OF CONSTRUCTION, LANDSCAPING TO BE REPLACED WITH HYDROSEED EROSION CONTROL MIX AS FOLLOWS:

65%-6 WEEKS FESCUE (VULPIA MICROSTACHYS) 20%-SPANISH TREFOLI (LOTUS PURSHIANUS), 15%-MULFLOWER MIX: CALIFORNIA POPPY (ESCHSCHOLZIA CALIFORNICA), LUPINE (LUPINUS SUCCULENTUS) & TIDY TIPS (LAYIA PLATYGLOSSA) SEED RATE: 60 LBS/ACRE, WOOD FIBER: MIN. 1,800 LBS/ACRE, FERTILIZER: (16-20-0): 450 LBS/ACRE, STABILIZER: AS PROVIDED WITH HYDROSEED MULCH WITH TACKIFIER: MIN. 80 LBS/ACRE. SEED AVAILABLE: PACIFIC COAST SEED: (925) 373-4417 OR DELTA GROWERS: (209) 931-0684.

KEY MAP

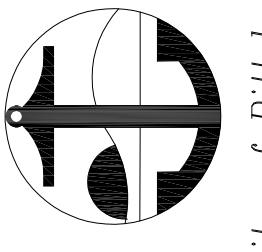


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JOHN SAMUELSON  
City Engineer  
Date:



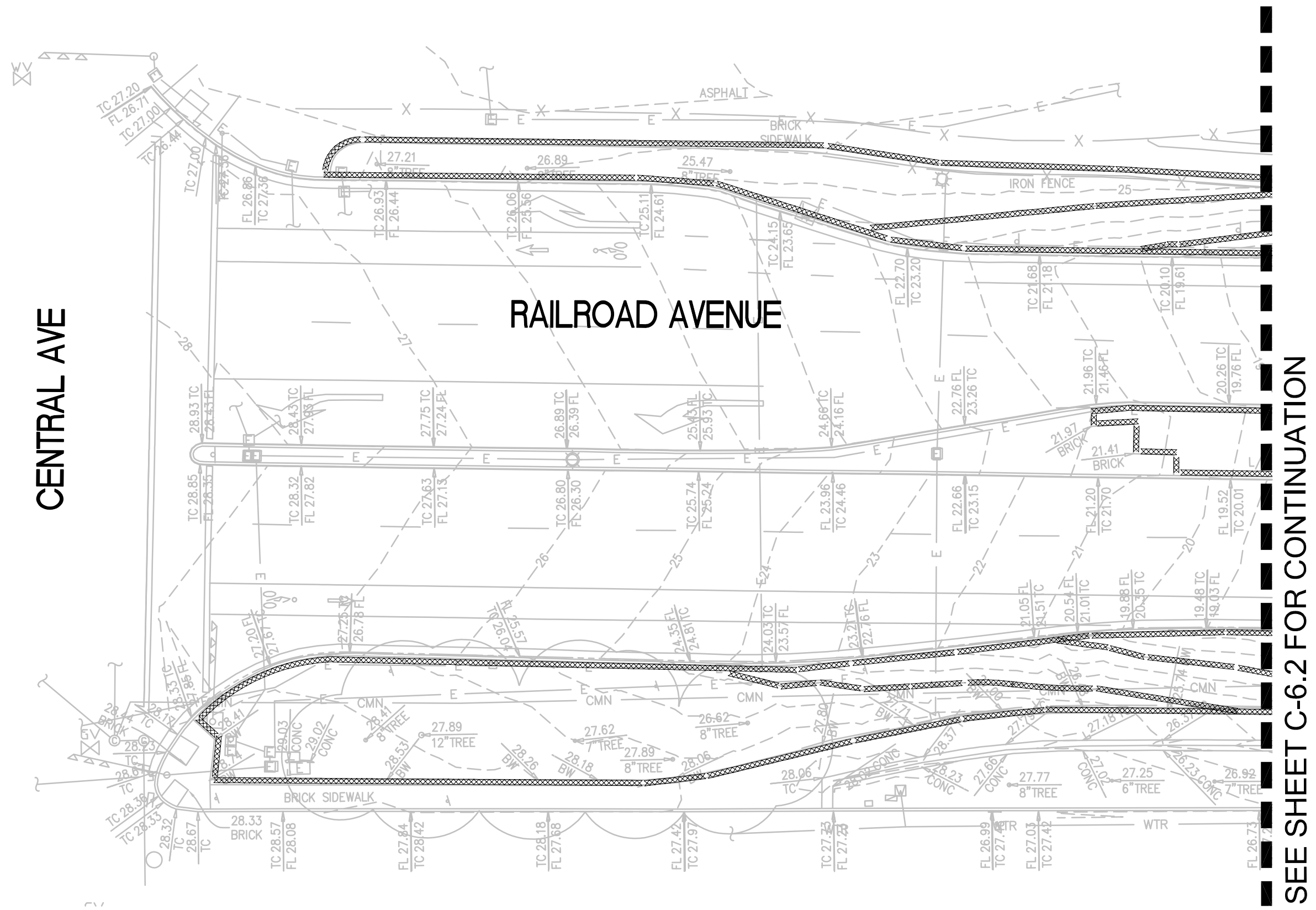
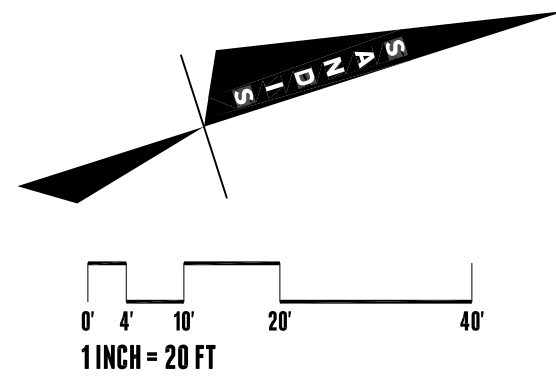
REVIVING THE HEART OF  
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EROSION CONTROL PLAN

BY	DRAWN: TZ
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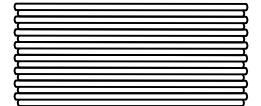
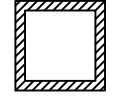

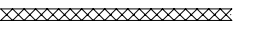

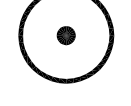

DATE	REV	DESCRIPTION
6/29/23		BID SET
7/25/23	2	BID ADDENDUM 2

SHEET NO.  
OF 101  
DWG. NO.  
**C-6.0**





**EROSION CONTROL LEGEND**

-  FODS TRACKOUT MAT OR APPROVED EQUAL
-  CONCRETE WASHOUT
-  PORTABLE RESTROOM
-  FIBER ROLL
-  TREE PROTECTION FENCING
-  EXISTING TREE TO REMAIN, PROTECT IN PLACE. SEE LANDSCAPE PLANS AND ARBORIST REPORT FOR TREE PROTECTION DETAILS.
-  INLET PROTECTION

SEE SHEET C-6.2 FOR CONTINUATION

**EROSION CONTROL NOTES**

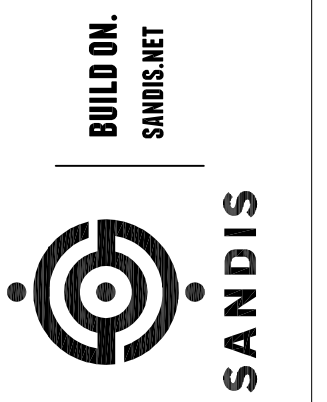
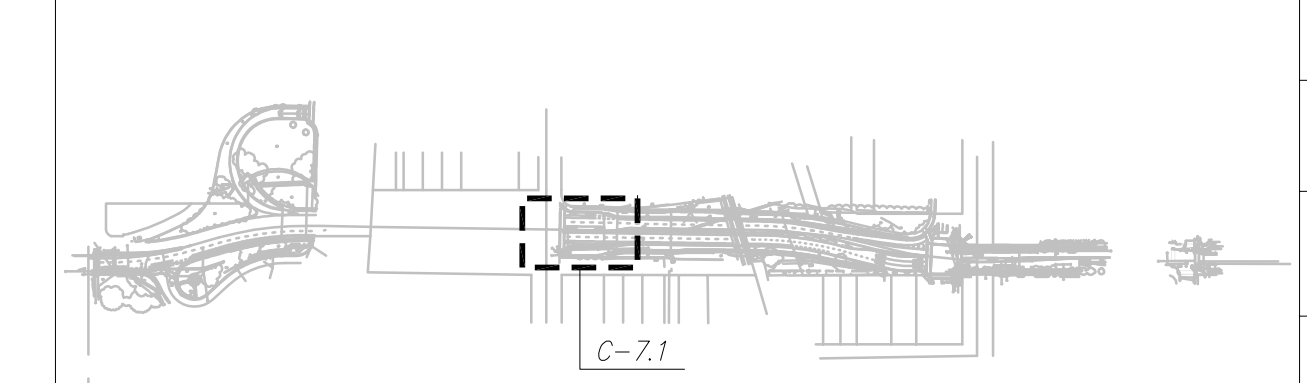
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3. THIS PLAN REPRESENTS POSSIBLE WATER POLLUTION CONTROL MEASURES INCLUDING EROSION CONTROL AND SEDIMENT CONTROL.
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5. GROUND WATER SHALL NOT BE DISCHARGED WITH STORM WATER. GROUND WATER DEWATERING OPERATIONS SHALL BE COORDINATED AS NEEDED WITH OWNER.
6. CONTRACTOR SHALL PROVIDE EFFECTIVE SOIL COVER FOR AREAS OF CONSTRUCTION ACTIVITY THAT HAVE BEEN DISTURBED AND ARE NOT SCHEDULED TO BE ACTIVE FOR AT LEAST 14 DAYS.
7. ALL EROSION CONTROL AND SEDIMENT CONTROLS TO BE OBTAINED INSTALLED AND MAINTAINED AS REQUIRED AS REQUIRED BY LOCAL JURISDICTION OR CONSTRUCTION GENERAL PERMIT.
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**LANDSCAPE NOTE**

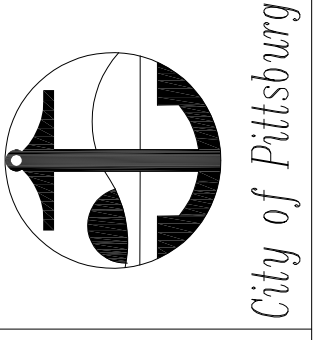
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KEY MAP



ACCEPTED FOR USE:  
JOHN SAMUELSON  
City Engineer  
Date:



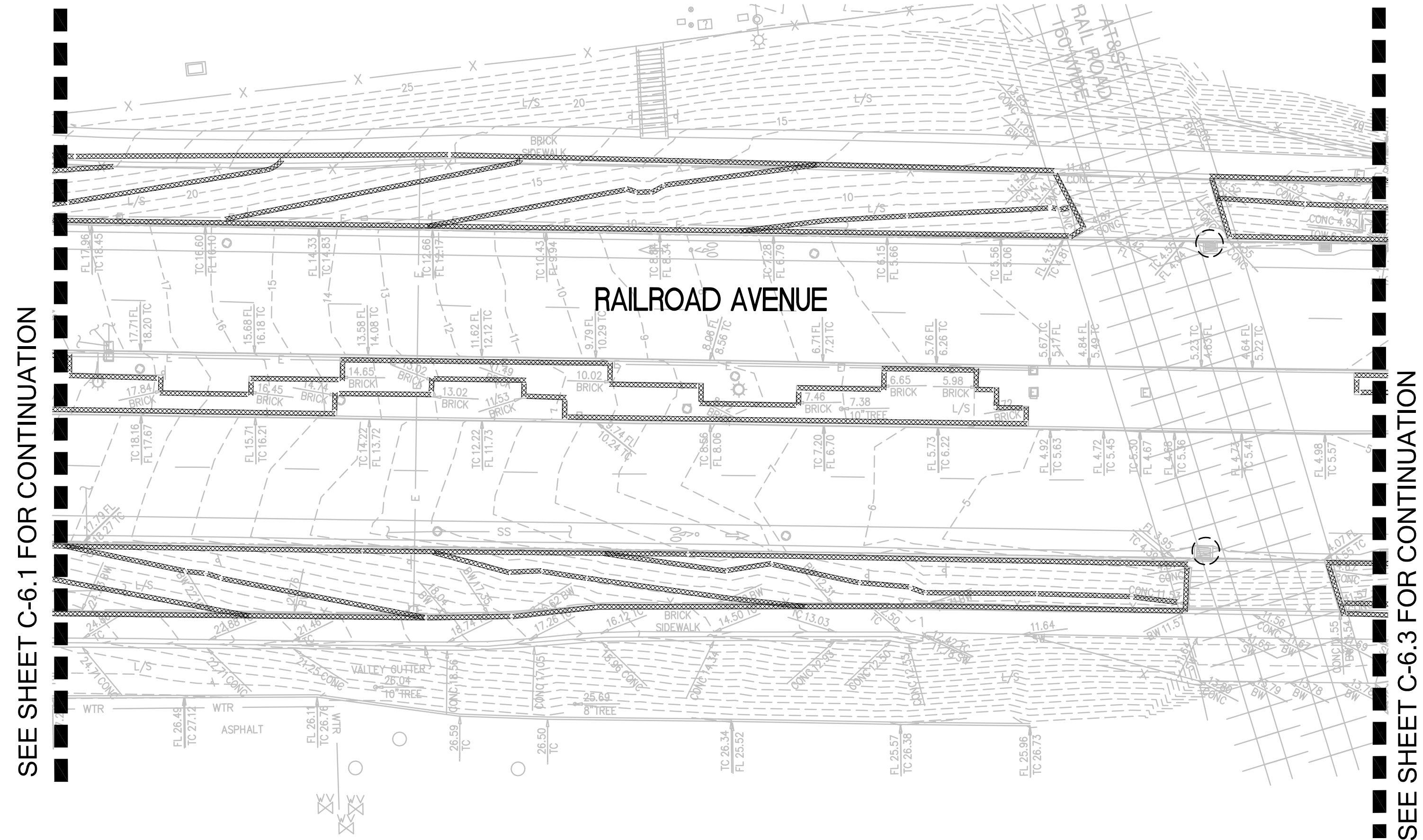
REVIVING THE HEART OF  
PITTSBURG PRIDE  
EROSION CONTROL PLAN

BY	DRAWN: TZ
ST	CHECKED: CG
NT	REVIEWED: CG, TZ
	DATE: 7/7/23
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DATE	REV	DESCRIPTION
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7/25/23	2	BID ADDENDUM 2

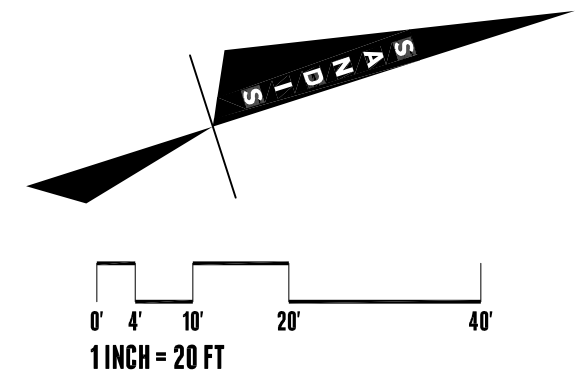
SHEET NO.  
OF 101

DWG. NO.  
**C-6.1**



SEE SHEET C-6.1 FOR CONTINUATION

SEE SHEET C-6.3 FOR CONTINUATION



**EROSION CONTROL LEGEND**

- FODS TRACKOUT MAT OR APPROVED EQUAL
- CONCRETE WASHOUT
- PORTABLE RESTROOM
- FIBER ROLL
- TREE PROTECTION FENCING
- EXISTING TREE TO REMAIN, PROTECT IN PLACE. SEE LANDSCAPE PLANS AND ARBORIST REPORT FOR TREE PROTECTION DETAILS.
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**EROSION CONTROL NOTES**

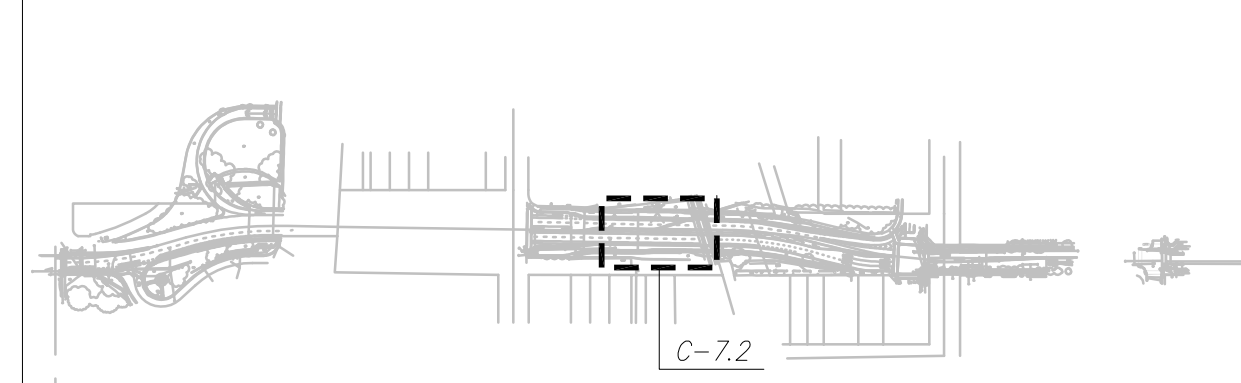
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KEY MAP



ACCEPTED FOR USE:

JOHN SAMUELSON  
City Engineer

Date: \_\_\_\_\_

**SANDIS**  
SANDIS.NET

REVIVING THE HEART OF  
PITTSBURG PRIDE

City of Pittsburg

EROSION CONTROL PLAN

SHEET NO. OF 101

DRAWN: TZ

CHECKED: CG

REVIEWED: CG, TZ

DATE: 7/7/23

SCALE: AS SHOWN

DESCRIPTION

BID SET

BID ADDENDUM 2

DATE

6/29/23

7/25/23

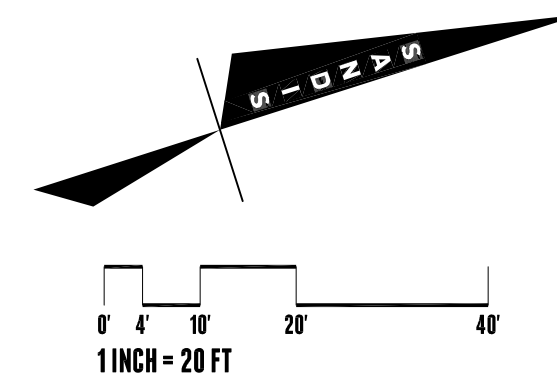
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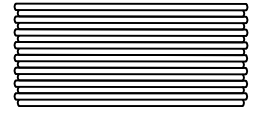
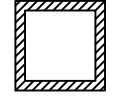
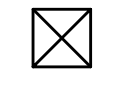
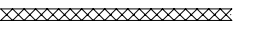
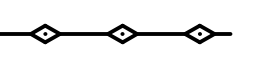
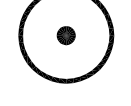

DWG. NO.

**C-6.2**





**EROSION CONTROL LEGEND**

-  FODS TRACKOUT MAT OR APPROVED EQUAL
-  CONCRETE WASHOUT
-  PORTABLE RESTROOM
-  FIBER ROLL
-  TREE PROTECTION FENCING
-  EXISTING TREE TO REMAIN, PROTECT IN PLACE. SEE LANDSCAPE PLANS AND ARBORIST REPORT FOR TREE PROTECTION DETAILS.
-  INLET PROTECTION

SEE SHEET C-6.2 FOR CONTINUATION

SEE SHEET C-6.4 FOR CONTINUATION

**EROSION CONTROL NOTES**

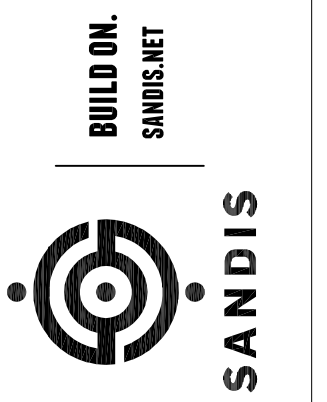
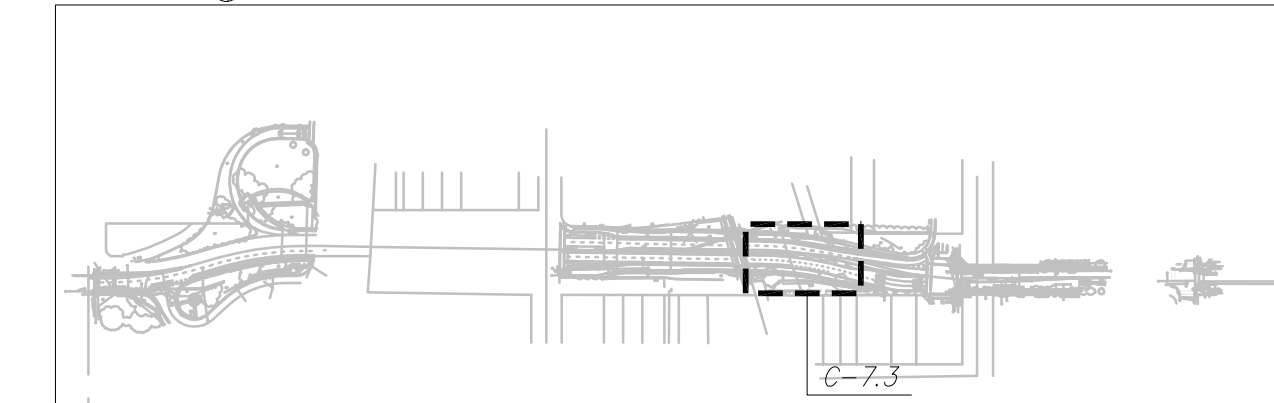
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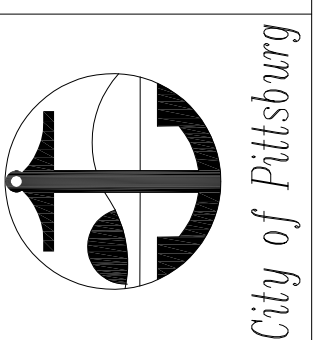
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KEY MAP



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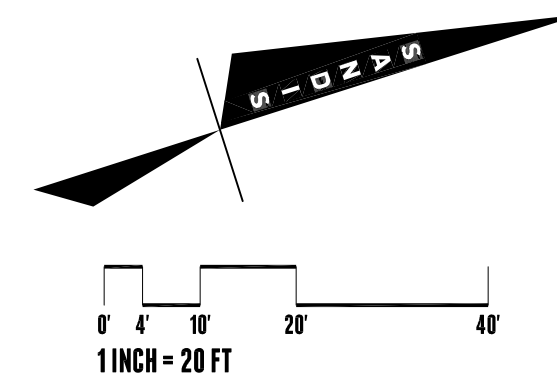
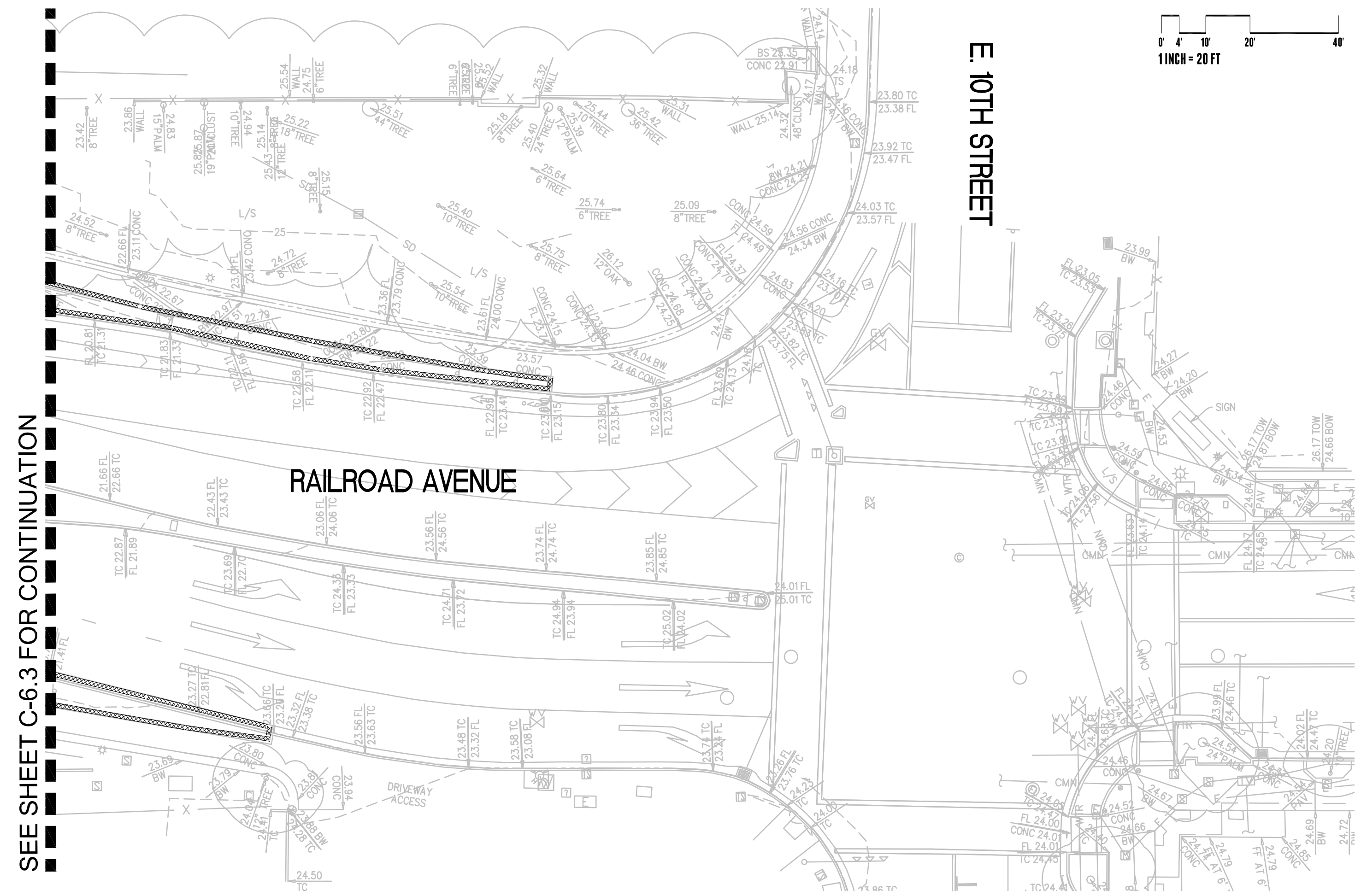


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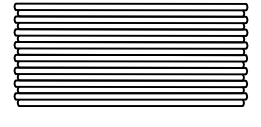
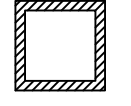

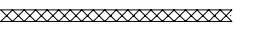



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ST	CHECKED: CG
NT	REVIEWED: CG, TZ
	DATE: 7/7/23
	SCALE: AS SHOWN

DATE	REV	DESCRIPTION
6/29/23	1	BID SET
7/25/23	2	BID ADDENDUM 2

SHEET NO.  
OF 101  
DWG. NO.  
**C-6.3**



**EROSION CONTROL LEGEND**

-  FODS TRACKOUT MAT OR APPROVED EQUAL
-  CONCRETE WASHOUT
-  PORTABLE RESTROOM
-  FIBER ROLL
-  TREE PROTECTION FENCING
-  EXISTING TREE TO REMAIN, PROTECT IN PLACE. SEE LANDSCAPE PLANS AND ARBORIST REPORT FOR TREE PROTECTION DETAILS.
-  INLET PROTECTION

SEE SHEET C-6.3 FOR CONTINUATION

**EROSION CONTROL NOTES**

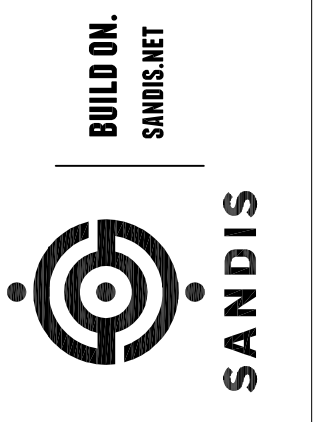
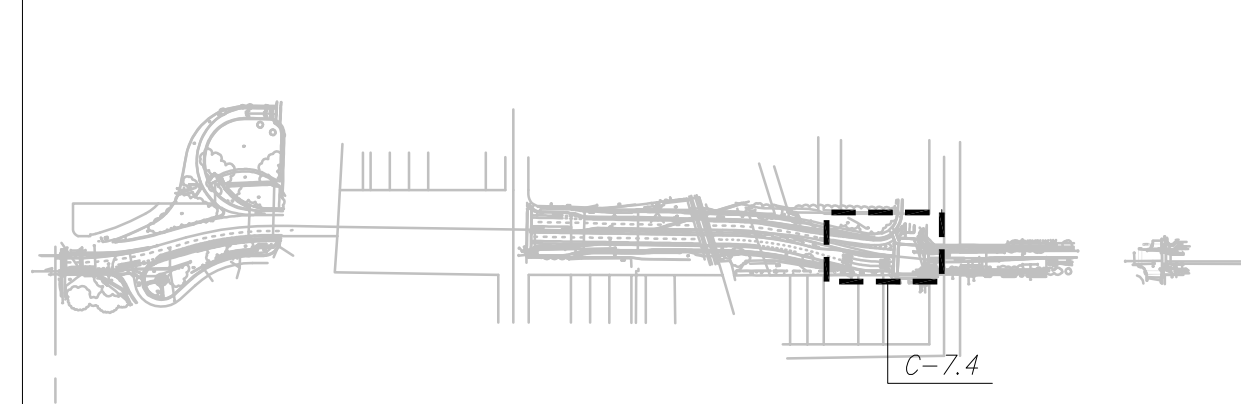
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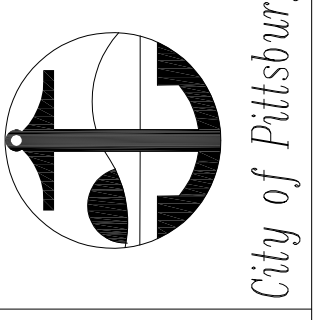
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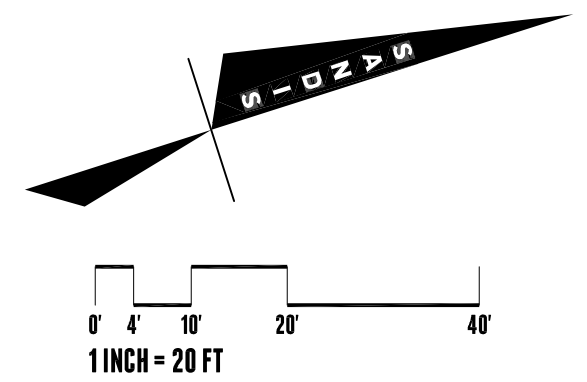
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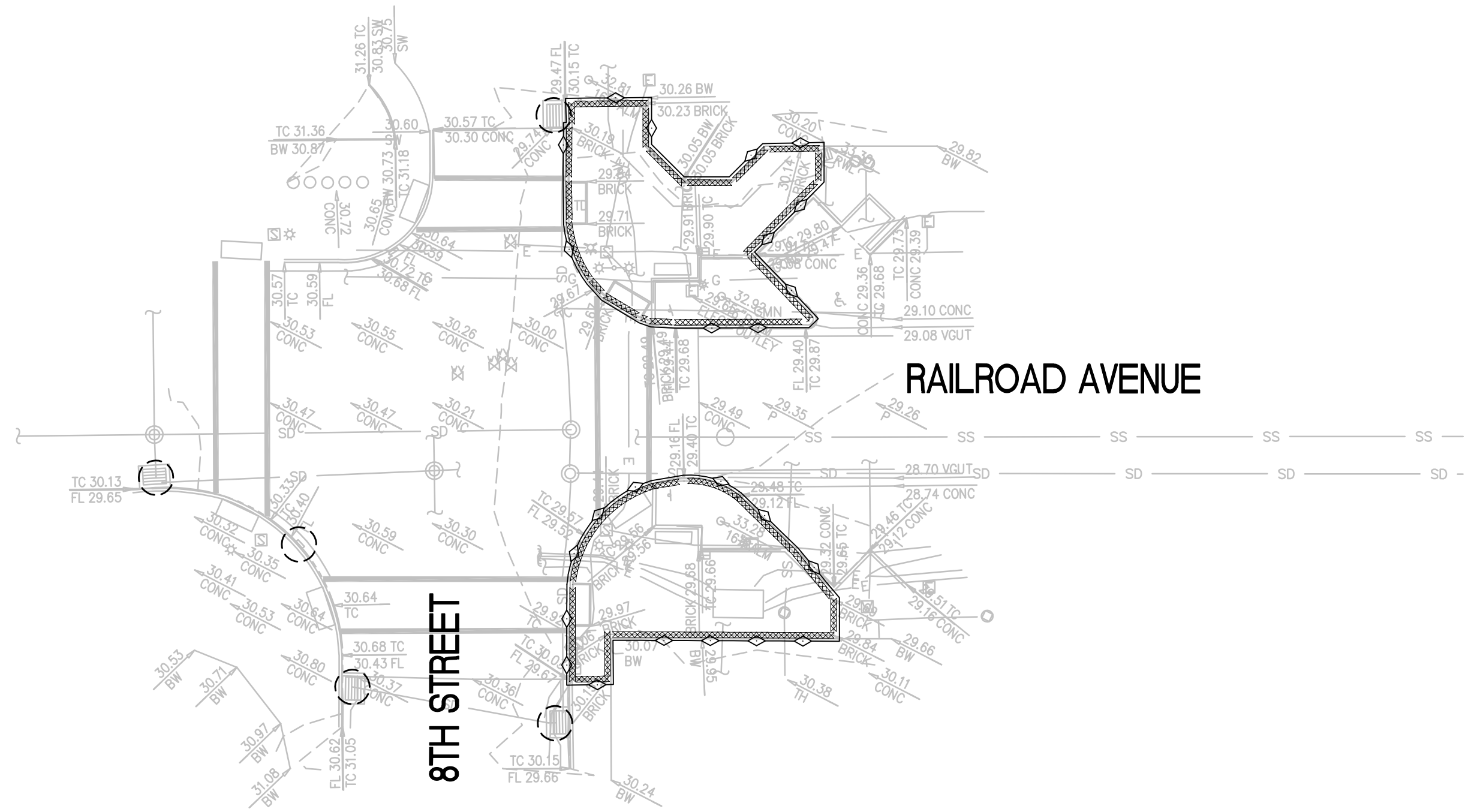
SHEET NO.  
 OF 101

DWG. NO.  
**C-6.4**



### EROSION CONTROL LEGEND

- SILT FENCE
- FIBER ROLLS
- INLET PROTECTION
- EXISTING TREE TO REMAIN, PROTECT IN PLACE. SEE LANDSCAPE PLANS AND ARBORIST REPORT FOR TREE PROTECTION DETAILS.



### EROSION CONTROL NOTES

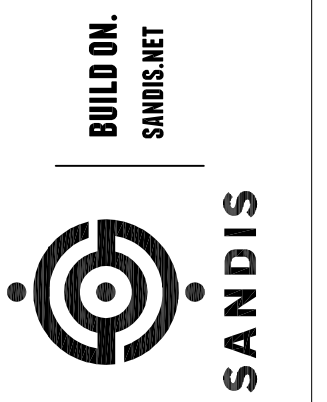
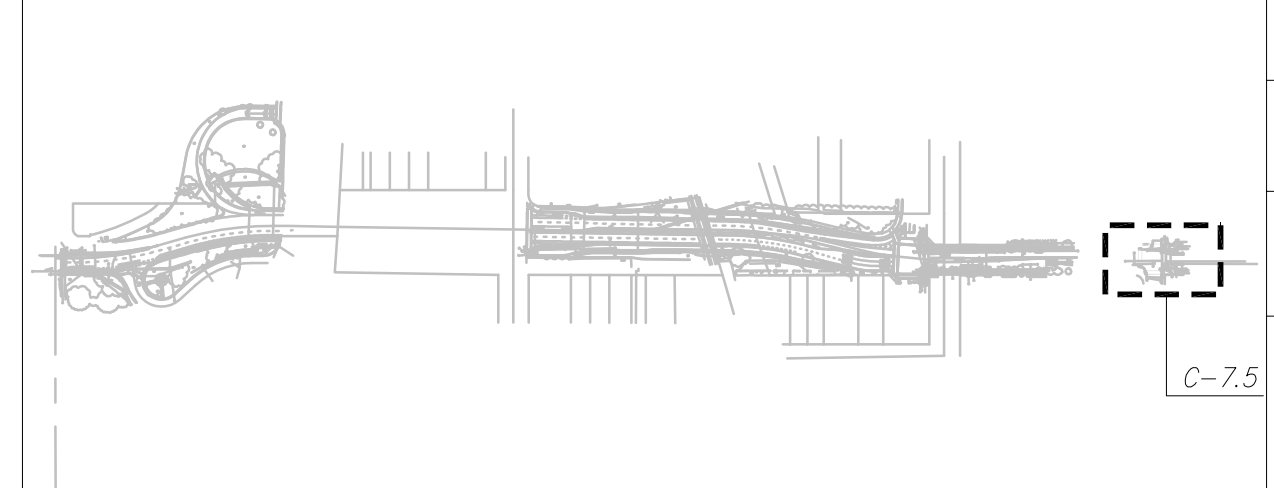
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3. THIS PLAN REPRESENTS POSSIBLE WATER POLLUTION CONTROL MEASURES INCLUDING EROSION CONTROL AND SEDIMENT CONTROL.
4. EXISTING SURFACES SHALL BE UNDISTURBED TO THE EXTENT PRACTICAL.
5. GROUND WATER SHALL NOT BE DISCHARGED WITH STORM WATER. GROUND WATER DEWATERING OPERATIONS SHALL BE COORDINATED AS NEEDED WITH OWNER.
6. CONTRACTOR SHALL PROVIDE EFFECTIVE SOIL COVER FOR AREAS OF CONSTRUCTION ACTIVITY THAT HAVE BEEN DISTURBED AND ARE NOT SCHEDULED TO BE ACTIVE FOR AT LEAST 14 DAYS.
7. ALL EROSION CONTROL AND SEDIMENT CONTROLS TO BE OBTAINED INSTALLED AND MAINTAINED AS REQUIRED AS REQUIRED BY LOCAL JURISDICTION OR CONSTRUCTION GENERAL PERMIT.
8. CONTRACTOR TO INSTALL RUN-ON AND RUN-OFF CONTROL MEASURES ACCORDING TO PLANS OR AS NECESSARY TO ENSURE SEDIMENT IS NOT TRANSPORTED FROM SITE.
9. CONTRACTOR TO PROVIDE BACK-UP EROSION PREVENTION MEASURES (SOIL STABILIZATION) WITH SEDIMENT CONTROL MEASURES SUCH AS STRAW WATTLES, SILT FENCE, GRAVEL INLET FILTERS, AND/OR SEDIMENT TRAPS OR BASINS. ENSURE CONTROL MEASURES ARE ADEQUATE, IN PLACE, AND IN OPERABLE CONDITIONS. SEDIMENT CONTROLS, INCLUDING INLET PROTECTION, ARE NECESSARY BUT SHOULD BE A SECONDARY DEFENSE BEHIND GOOD EROSION CONTROL MEASURES.
10. ALL CONCRETE TRUCKS TO USE CHUTE WASH BUCKETS FOR CONCRETE RINSE. ALL CONCRETE PUMPS TO CAPTURE CONCRETE RINSE IN SECONDARY CONTAINMENT AND PROPERLY DISPOSE.
11. STREET SWEEPING SHALL BE CHECKED DAILY TO ENSURE DEPOSITED SEDIMENT AND DEBRIS DOES NOT ENTER THE STORM DRAIN SYSTEM. USE REGENERATIVE VACUUM STREET CLEANER TO MITIGATE AIR AND WATER POLLUTION.
12. RUNOFF THAT HAS CONTACTED AMENDED SOIL AREAS SHALL NOT BE ALLOWED TO LEAVE THE SITE OR ENTER THE STORM DRAIN SYSTEM.

### LANDSCAPE NOTE

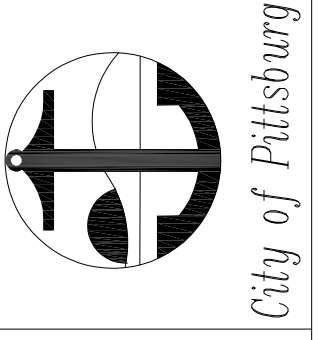
THE CONTRACTOR SHALL BE RESPONSIBLE HYDROSEEDING ANY SOIL DISTURBED AREAS REQUIRING TEMPORARY PROTECTION UNTIL A PERMANENT STABILIZATION IS ESTABLISHED. DISTURBED AREAS THAT WILL BE REDISTURBED FOLLOWING AN EXTENDED PERIOD OF INACTIVITY AND AT THE END OF CONSTRUCTION, LANDSCAPING TO BE REPLACED WITH HYDROSEED EROSION CONTROL MIX AS FOLLOWS:

65%-6 WEEKS FESCUE (VULPIA MICROSTACHYS) 20%-SPANISH TREFLOIL (LOTUS PURSHIANUS), 15%-MULFLOWER MIX: CALIFORNIA POPPY (ESCHSCHOLZIA CALIFORNICA), LUPINE (LUPINUS SUCCULENTUS) & TIDY TIPS (LAIMA PLATYGLOSSA) SEED RATE: 60 LBS/ACRE, WOOD FIBER: MIN. 1,800 LBS/ACRE, FERTILIZER: (16-20-0): 450 LBS/ACRE, STABILIZER: AS PROVIDED WITH HYDROSEED MULCH WITH TACKIFIER: MIN. 80 LBS/ACRE. SEED AVAILABLE: PACIFIC COAST SEED: (925) 373-4417 OR DELTA GROWERS: (209) 931-0684.

KEY MAP



ACCEPTED FOR USE:  
JOHN SAMUELSON  
City Engineer  
Date:



REVIVING THE HEART OF  
PITTSBURG PRIDE  
EROSION CONTROL PLAN

BY	DATE	DESCRIPTION
ST	6/29/23	BID SET
NT	7/25/23	BID ADDENDUM 2
BY	DATE	DESCRIPTION
CG		CHECKED:CG
TZ		REVIEWED:CG, TZ
	7/7/23	DATE:7/7/23
		SCALE:AS SHOWN

SHEET NO.  
OF 101  
DWG. NO.  
**C-6.5**



## HYDROSEEDING NOTES

- HYDROSEED SHALL BE APPLIED TO A FRESHLY GRADED SURFACE WHILE SOIL REMAINS FRIABLE AND WEED FREE. IN THE EVENT OF DELAY BETWEEN GRADING AND HYDROSEEDING, ANY EMERGENT WEEDS WILL HAVE TO BE DESTROYED BY APPLICATION OF A TRANSLOCATING HERBICIDE UNDER SUPERVISION OF A LICENSED APPLICATOR OR ADVISOR. REPEAT APPLICATIONS MAY HAVE TO BE MADE DEPENDING ON TARGET SPECIES OF WEEDS. LITTER FROM EUCALYPTUS, BLACK WALNUT, RYEGRASS OR ANY OTHER PLANT MATERIAL KNOWN TO RESTRICT WILDFLOWER DEVELOPMENT WILL HAVE TO BE REMOVED FROM THE SITE. THE SOIL SURFACE WILL THEN HAVE TO BE BROKEN BY MECHANICAL MEANS TO AT LEAST 1" DEPTH TO ENSURE GOOD ROOTING OF THE HYDROSEED MIX.
- WATER FOR HYDROMULCHING SHALL BE CLEAR AND POTABLE. IF OBTAINED AT THE SITE IT SHALL BE DONE SO ONLY UNDER PERMIT WHERE CITY FACILITIES ARE UTILIZED. IT SHALL BE ADDED TO THE SLURRY MIXTURE SUFFICIENT TO ENSURE UNIFORM DISTRIBUTION OF HYDROMULCH SOLIDS.
- ALL SEED SHALL BE DELIVERED TO THE SITE IN SEALED CONTAINERS. CONTAINERS SHALL BE CLEARLY MARKED AND SHALL BE APPROVED BY THE CITY ENGINEER AND THE SEED EXAMINED AT THE TIME CONTAINERS ARE OPENED.
- MULCH SHALL BE A FIBROUS WOOD CELLULOSE MATERIAL CAPABLE OF UNIFORM SUSPENSION WHEN ADDED TO THE WATER AND AGITATED IN A SLURRY TANK. IT SHALL BE FREE OF GROWTH OR GERMINATION INHIBITING AGENTS. PACKAGES OF MULCH SHALL BE MARKED TO SHOW DRY WEIGHT CONTENT.
- FERTILIZER SHALL BE 16-6-8 APPLIED AT 400 POUNDS PER ACRE. AT NO TIME CAN FERTILIZER BE COMBINED WITH INOCULATED SEED IN THE SAME APPLICATION.
- STABILIZER CAN BE TYPE M OR EQUAL, APPLIED AT 80 POUNDS PER ACRE FOR ALL SLOPES STEEPER THAN 2:1.
- OTHER AGENTS SUCH AS PHOTOCHEMICAL DYES, WATER PENETRANTS AND TACKIFIERS MAY BE ADDED AT THE DISCRETION OF THE CONTRACTOR OR GEOTECHNICAL ENGINEER.
- HYDROSEEDING SHALL BE MADE IN TWO APPLICATIONS:
  - ALL SEED WITH 500 POUNDS OF MULCH PER ACRE. THE SEED SHOULD BE APPLIED WITHIN THIRTY MINUTES OF BEING ADDED TO THE SLURRY TANK.
  - THE SECOND APPLICATION CAN BE MADE ANY TIME AFTER THE FIRST (A., ABOVE) HAS BEEN PUT DOWN. IT SHALL CONSIST OF 1,800 POUNDS OF MULCH PER ACRE WITH FERTILIZER AND STABILIZING EMULSION AND BE APPLIED OVER THE FIRST APPLICATION.
- FOLLOW UP APPLICATIONS SHALL BE MADE TO COVER WEAK SPOTS, TRENCHING BACKFILL OR DRAINAGE OR IRRIGATION, REGRADING OR OTHER DISTURBANCES AS DIRECTED BY THE CITY INSPECTOR.
- REFER TO LANDSCAPE NOTE ON THE EROSION CONTROL PLANS FOR THE HYDROSEED MIX.

## TEMPORARY EROSION CONTROL MEASURES

EFFECTIVE DURING RAINY SEASON  
OCTOBER 1 TO APRIL 15

- TEMPORARY EROSION CONTROL DEVICES SHOWN ON EROSION CONTROL PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED WHEN THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES.
- EXCEPT AS OTHERWISE DIRECTED BY THE INSPECTOR, ALL DEVICES SHOWN ON THE EROSION CONTROL PLAN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THERE IS RUN-OFF. ALL EROSION CONTROL FACILITIES MUST BE INSPECTED AND REPAIRED AT THE END OF EACH WORKING DAY DURING THE RAINY SEASON AND MAINTAINED DURING THE RAINY SEASON (OCTOBER 1 TO APRIL 15).
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PROVISIONS OF THE ASSOCIATION OF BAY AREA GOVERNMENTS (ABAG) "MANUAL OF STANDARDS FOR EROSION AND SEDIMENT CONTROL MEASURES" UNLESS OTHERWISE STATED WITHIN THESE GENERAL NOTES. CONTROL MEASURES ARE SUBJECT TO THE INSPECTION AND APPROVAL OF THE ENGINEERING DIVISION. SCHEDULE AN ENGINEERING INSPECTION AT LEAST 48 HOURS PRIOR TO THE START OF ANY WORK.
- ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON BOTH STARTING AND ENDING OPERATIONS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN RUNOFF TO ANY STORM DRAIN SYSTEM.
- THE CONTRACTOR SHALL PLACE DRAIN ROCK AS A GRAVEL ROADWAY AS SHOWN ON PLANS AT THE ROAD ENTRANCE TO THE SITE. ANY MUD THAT IS TRACED ONTO PUBLIC STREETS SHALL BE REMOVED THE SAME DAY AS REQUIRED BY THE INSPECTOR.
- STAND-BY CREWS SHALL BE ALERTED BY THE PERMITTEE OR CONTRACTOR FOR EMERGENCY WORK DURING RAINSTORMS.
- AFTER OCTOBER 1, ALL EROSION CONTROL MEASURES WILL BE INSPECTED DAILY AND AFTER EACH STORM. AFTER OCTOBER 1, BREACHES IN DIKES AND SWALES WILL BE REPAIRED AT THE CLOSE OF EACH DAY AND WHENEVER RAIN IS FORECAST.
- AS A PART OF THE EROSION CONTROL MEASURES, UNDERGROUND STORM DRAIN FACILITIES AND CONCRETE SHALL BE INSTALLED COMPLETE AS SHOWN ON THE IMPROVEMENT PLANS.

## TEMPORARY EROSION CONTROL MEASURES (CONTINUED)

- ALL STORM DRAIN INLET STRUCTURES GREATER THAN FOUR FEET IN DEPTH SHALL HAVE STEPS INSTALLED PER THE LATEST ACCEPTED SAFETY STANDARDS.
- ALL GRADED AREAS, INCLUDING, BUT NOT LIMITED TO, CUT AND FILL SLOPES, STREETS, PARKING AREAS, AND BUILDING PADS SHALL BE HYDROSEEDED PER SPECIFICATIONS THIS SHEET. IN ADDITION TO HYDROSEEDING, APPLICATION OF STRAW WITH A TACKIFIER OR MULCH MAY BE REQUIRED BY THE CITY ENGINEER.
- IF ANY GRADING OPERATIONS, OTHER THAN SITE FINISH GRADING, ARE TO BE PERFORMED DURING THE RAINY SEASON, OCTOBER 1 THROUGH APRIL 15, AN EROSION CONTROL PLAN MUST BE SUBMITTED BY SEPTEMBER 1 AND THE PLAN MUST BE APPROVED BY THE TOWN OF ATHONTON PRIOR TO THE COMMENCEMENT OF ANY SUCH GRADING OPERATIONS.
- TO MINIMIZE EROSION OF GRADED BANKS, ALL GRADED BANKS STEEPER THAN 2% AND HIGHER THAN 3 FEET, SHALL BE HYDROSEEDED PER SPECIFICATIONS THIS SHEET, LANDSCAPED, OR SEALED. IN ADDITION TO HYDROSEEDING, APPLICATION OF STRAW WITH A TACKIFIER OR MULCH MAY BE REQUIRED. IF THE PERMANENT STORM DRAIN SYSTEM IS NOT INSTALLED BY OCTOBER 1, TEMPORARY DITCHES SHALL BE CONSTRUCTED TO CONTAIN THE STORM WATER AND DIRECT IT, IN A MANNER THAT AVOIDS EROSION OF THE BANKS, TO THE EROSION AND SEDIMENT CONTROL FACILITIES.
- ALL CUT AND FILL SLOPES ARE TO BE PROTECTED TO PREVENT OVERTHE BANK FLOW USING 4" EARTH BERMS OR SILT FENCES.
- ALL GRADED AREAS, INCLUDING, BUT NOT LIMITED TO, CUT AND FILL SLOPES, STREETS, PARKING AREAS, AND BUILDING PADS SHALL BE COVERED WITH MULCHED STRAW AS FOLLOWS:
 

ORGANIC BINDER	100 LBS/ACRE
STRAW MULCH	4000 LBS/ACRE
- BORROW AREAS AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES TO THE SATISFACTION OF THE ENGINEER.
- STRAW WATTLES SHALL BE STOCKPILED ON SITE AND PLACED AT INTERVALS SHOWN ON EROSION CONTROL PLANS, WHEN THE RAIN FORECAST IS 40% OR GREATER, OR WHEN DIRECTED BY THE INSPECTOR.

## DUST CONTROL NOTES

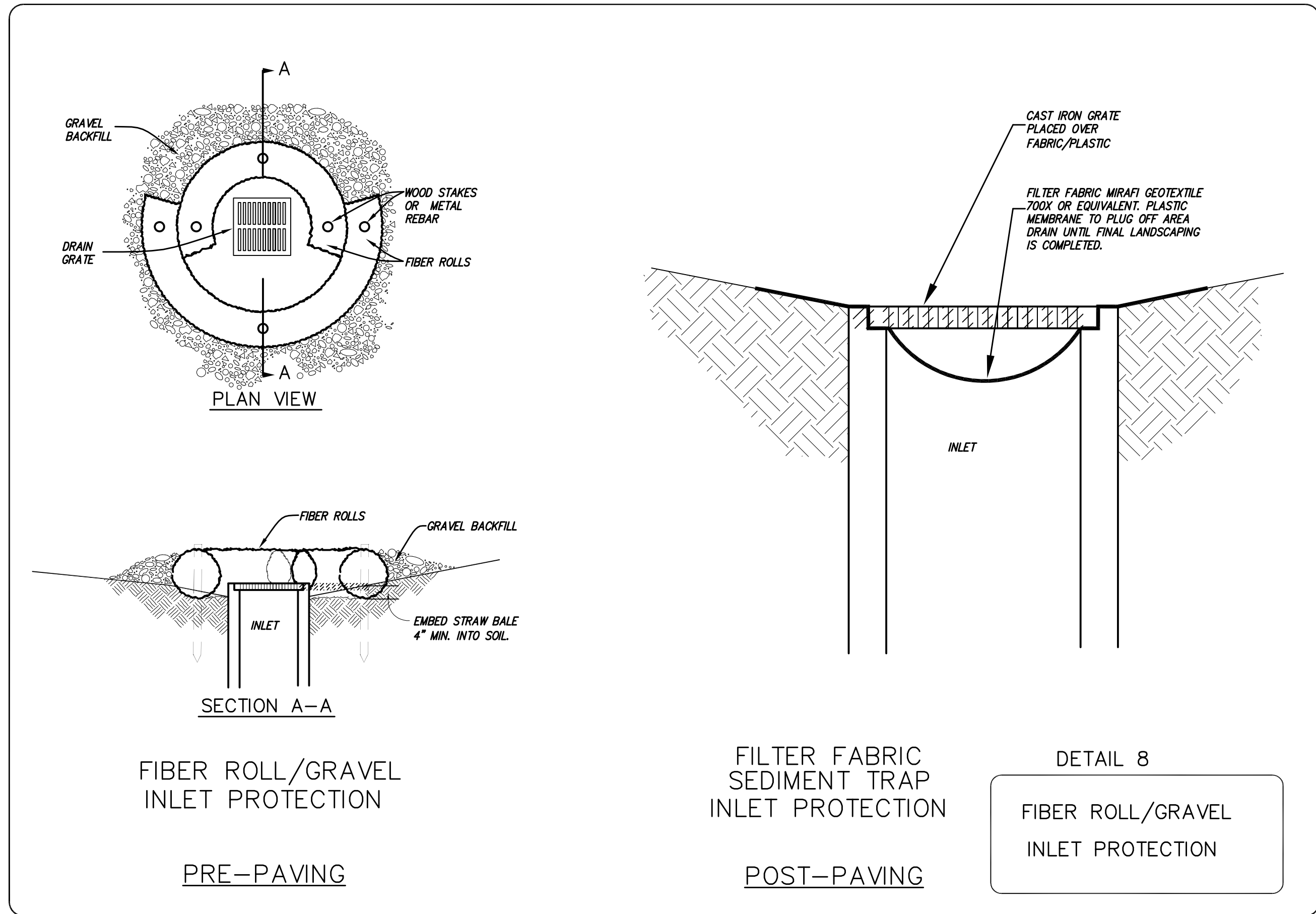
- DUST PROOF SHOOT (TUBES) SHOULD BE USED FOR LOADING CONSTRUCTION DEBRIS ONTO TRUCKS.
- WATERING SHALL BE USED TO CONTROL DUST GENERATION DURING DEMOLITION OF STRUCTURES AND BREAK UP OF PAVEMENT. CONTRACTOR SHALL MAINTAIN A WATER TRUCK ONSITE OR AVAILABLE SITE WATER DURING THE FULL TERM OF CONSTRUCTION.
- COVER ALL TRUCK HAULING DEMOLITION DEBRIS FROM THE SITE.
- WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY.
- WATER OR COVER STOCKPILES OF DEBRIS, SOIL AND OTHER MATERIALS THAT CAN BE BLOWN BY THE WIND.
- WATER OR COVER STOCKPILES OF DEBRIS, SOIL AND OTHER MATERIALS THAT CAN BE BLOWN BY THE WIND.
- PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY SOIL STABILIZERS (NON-TOXIC) ON ALL UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT THE SITE.
- SWEEP DAILY (PREFERABLY WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS AND PARKING AREAS. SWEEP STREETS DAILY IF SOIL IS CARRIED ONTO ADJACENT STREETS.
- LIMIT TRAFFIC SPEEDS ON UNPAVED ROADS TO 15 MPH.
- INSTALL SANDBAG OR OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
- REPLANT VEGETATION IN DISTURBED AREAS AS QUICKLY AS POSSIBLE.
- CLEAN ALL ONSITE STORM INLETS OF DEBRIS BEFORE PERMITTING INFLOW FLUSHING.
- CONTRACTOR SHALL MONITOR AND WATER THE SITE AT THE END OF EACH WORK DAY FOR DUST CONTROL, INCLUDING NON-WORKING DAYS AND HOLIDAYS.
- PERFORM CLEARING AND EARTH MOVING ACTIVITIES ONLY DURING DRY WEATHER.

### FIBER ROLLS NOTES:

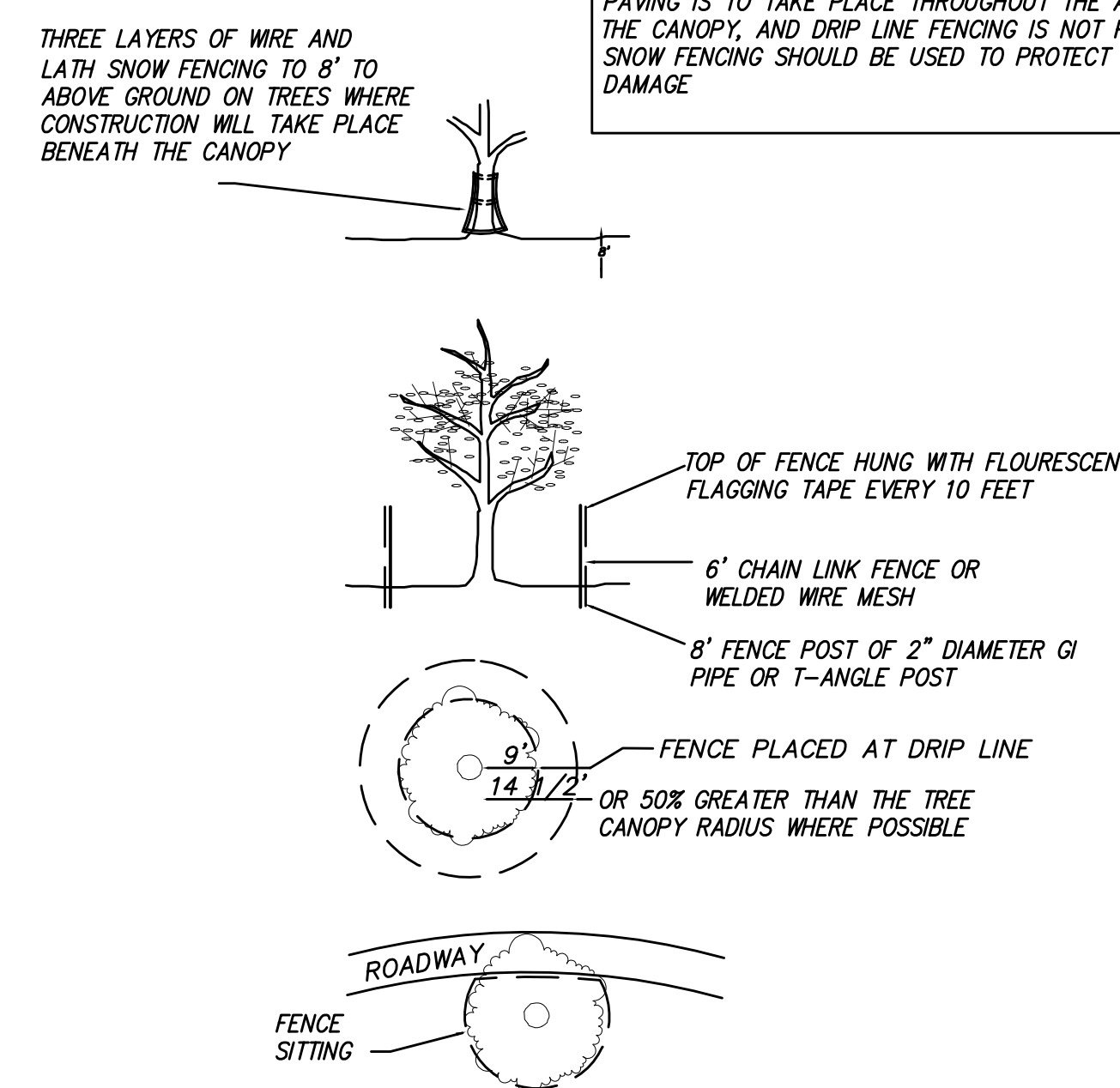
- LOCATE FIBER ROLLS ON LEVEL CONTOURS SPACED AS FOLLOWS:
  - SLOPE INCLINATION OF 4:1 (H:V) OR FLATTER: FIBER ROLLS SHOULD BE PLACED AT MAXIMUM INTERVAL OF 20 FT.
  - SLOPE INCLINATION BETWEEN 4:1 AND 2:1 (H:V): FIBER ROLLS SHOULD BE PLACED AT MAXIMUM INTERVAL OF 15 FT (A CLOSER SPACING IS MORE EFFECTIVE).
  - SLOPE INCLINATION 2:1 (H:V) OR GREATER: FIBER ROLLS SHOULD BE PLACED AT MAXIMUM INTERVAL 10 FT. (A CLOSER SPACING IS MORE EFFECTIVE).
- TURN THE ENDS OF THE FIBER ROLL UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE ROLL.
- STAKE FIBER ROLLS INTO A 2 TO 4 IN. DEEP TRENCH WITH A WIDTH EQUAL TO THE DIAMETER OF THE FIBER ROLL.
  - DRIVE STAKES AT THE END OF EACH FIBER ROLL AND SPACED 4 FT MAXIMUM ON CENTER.
  - USE WOOD STAKES WITH A NOMINAL CLASSIFICATION OF 0.75 BY 0.75 IN. AND MINIMUM LENGTH OF 24 IN.

### NOTES:

SEDIMENT/EROSION CONTROL MEASURES SHOWN ON THIS SHEET ARE THE MINIMUM REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADDITIONAL SEDIMENT/EROSION CONTROL MEASURES AS DEEMED NECESSARY TO ASSURE ADEQUATE PROTECTION DURING THE PROGRESS OF CONSTRUCTION AND AT THE CONTRACTOR'S EXPENSE.

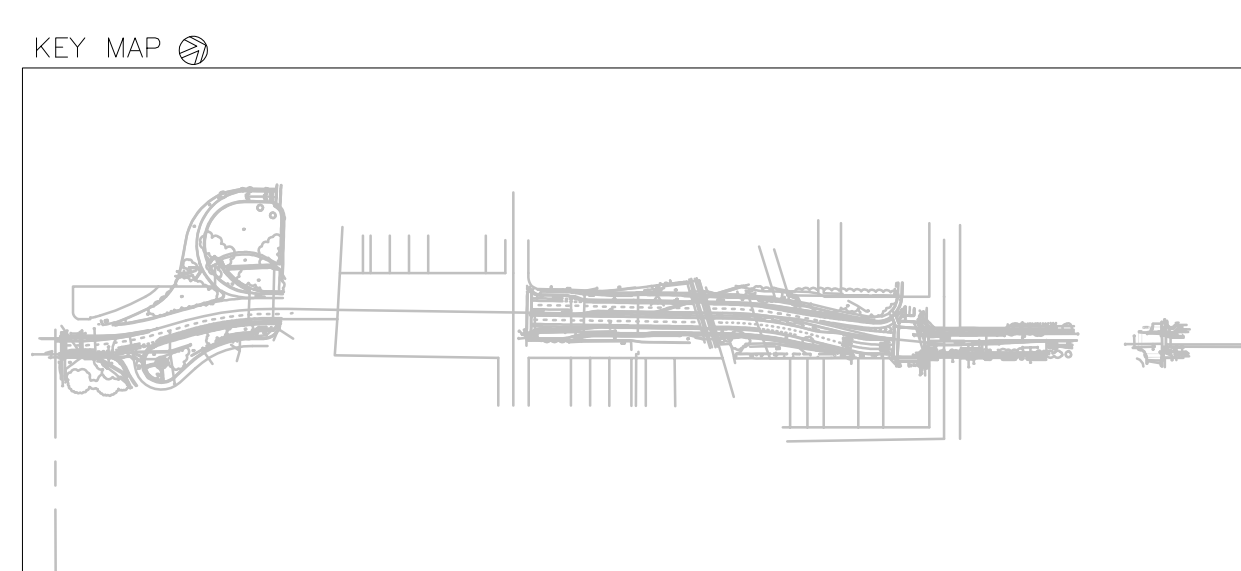


CONSTRUCTION PERIOD PROTECTION FOR TREE SHOULD BE PROVIDED BEFORE GRADING OR OTHER EQUIPMENT IS ALLOWED ON THE PROPERTY.  
WHEN CONSTRUCTION IS TO TAKE PLACE BENEATH A TREE CANOPY ON ONE SIDE, THE FENCE SHOULD BE SITED 2' TO 3' BEYOND THAT CONSTRUCTION, BUT BETWEEN CONSTRUCTION AND THE TREE TRUNK IF CONSTRUCTION OR PAVING IS TO TAKE PLACE THROUGHOUT THE AREA BENEATH THE CANOPY, AND DRIP LINE FENCING IS NOT PRACTICAL, SNOW FENCING SHOULD BE USED TO PROTECT TRUNKS FROM DAMAGE.



## TREE PROTECTION

N.T.S. 2



**BUILD ON: SANDIS.NET**

**SANDIS**

ACCEPTED FOR USE: JOHN SAMUELSON, City Engineer, Date: \_\_\_\_\_

**REVIVING THE HEART OF PITTSBURG PRIDE**

**EROSION CONTROL DETAILS**

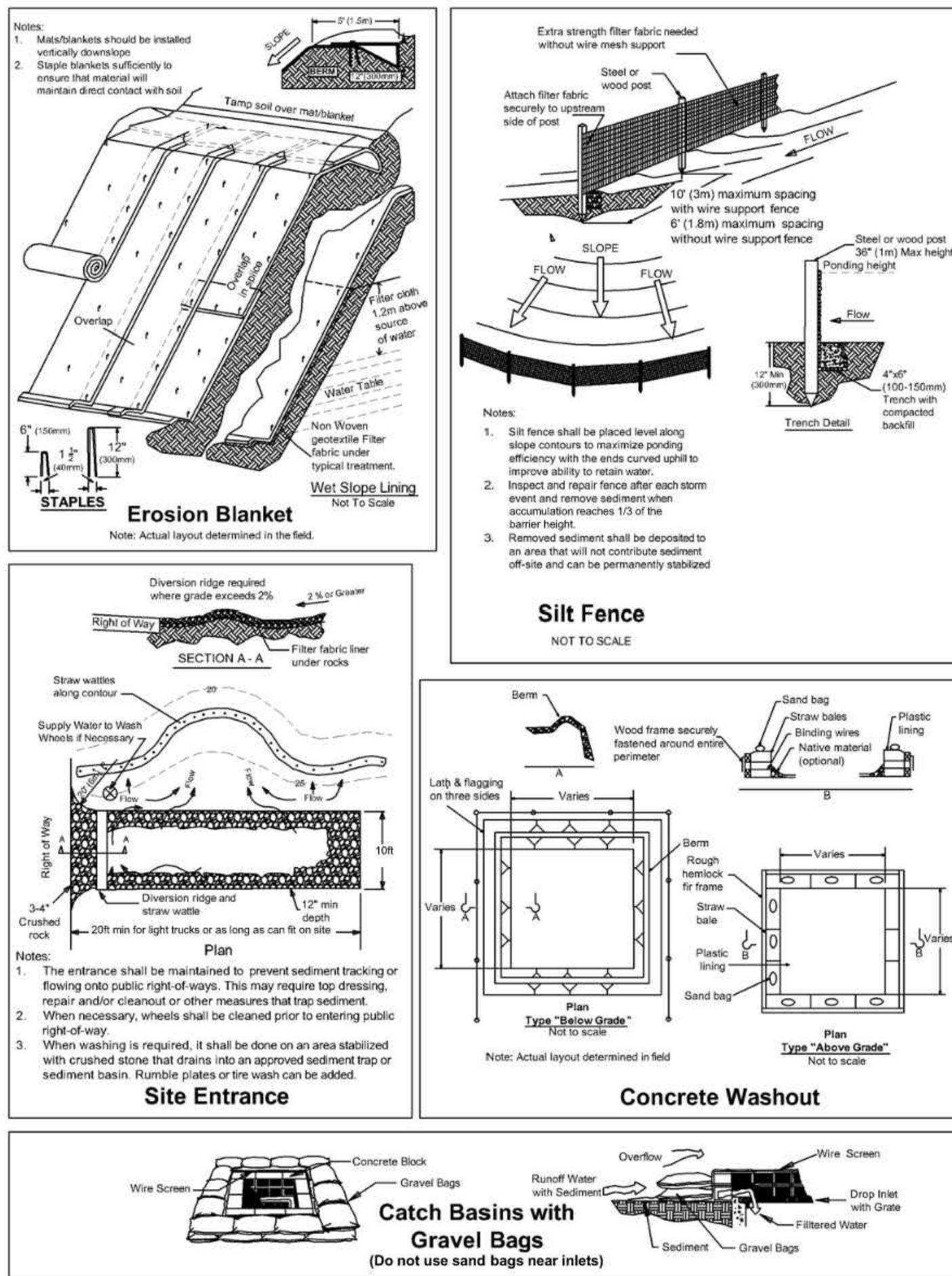
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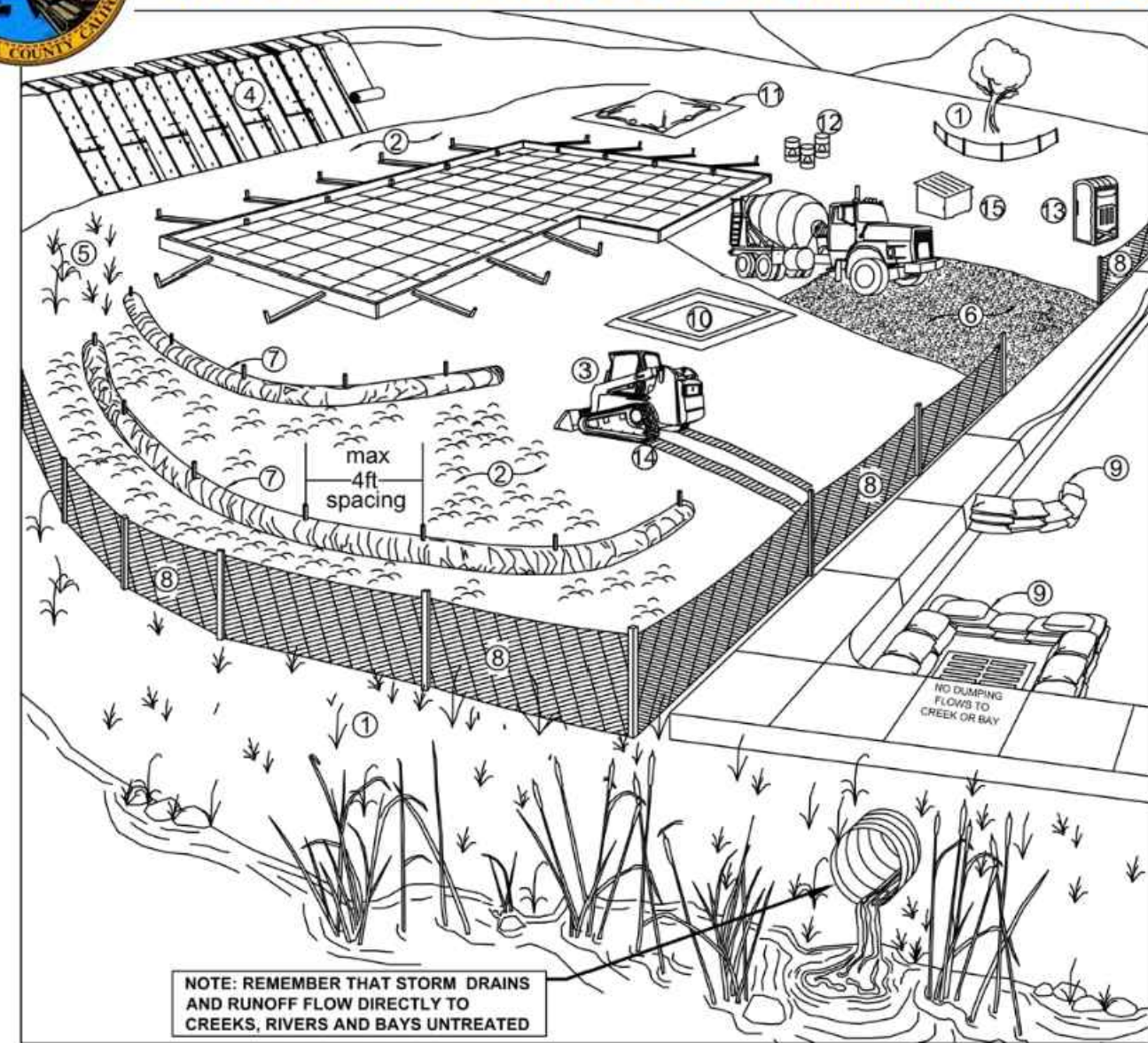


Control Measure	General Description
<b>Erosion Control Best Management Practices</b>	
N/A	<b>Scheduling</b> Plan the project and develop a schedule showing each phase of construction. Schedule construction activities to reduce erosion potential, such as scheduling ground disturbing activities during the summer and phasing projects to minimize the amount of area disturbed. For more info see the following factsheets: CASQA: EC-1; or Caltrans: SS-1.
1	<b>Preserve Existing Vegetation and Creek Setbacks</b> Preserve existing vegetation to the extent possible, especially along creek buffers. Show creek buffers on maps and identify areas to be preserved in the field with temporary fencing. Check with the local Planning and Public Works Departments for specific creek set back requirements. For more info see the following factsheets: CASQA: EC-2; or Caltrans: SS-2.
2	<b>Soil Cover</b> Cover exposed soil with straw mulch and tackifier (or equivalent). For more info see the following factsheets: CASQA: EC-3, EC-5, EC-6, EC-7, EC-8, EC-14, EC-16; or Caltrans: SS-2, SS-4, SS-5, SS-6, SS-7, SS-8.
3	<b>Soil Preparation/ Roughening</b> Soil preparation is essential to vegetation establishment and BMP installation. It includes soil testing and amendments to promote vegetation growth as well as roughening surface soils by mechanical methods (decompacting, scarifying, stair stepping, etc.). For more info see the following factsheets: CASQA: EC-15.
4	<b>Erosion Control Blankets</b> Install erosion control blankets (or equivalent) on disturbed sites with 3:1 slopes or steeper. Use wildlife-friendly blankets made of biodegradable natural materials. Avoid using blankets made with plastic netting or fixed aperture netting. See: <a href="http://www.coastal.ca.gov/nps/Wildlife-Friendly_Products.pdf">http://www.coastal.ca.gov/nps/Wildlife-Friendly_Products.pdf</a> . For more info see the following factsheets: CASQA: EC-7; or Caltrans: SS-7.
5	<b>Revegetation</b> Re-vegetate areas of disturbed soil or vegetation as soon as practical. For more info see the following factsheets: CASQA: EC-4; or Caltrans: SS-4.
<b>Sediment Control Best Management Practices</b>	
6	<b>Tracking Controls</b> Stabilize site entrance to prevent tracking soil offsite. Inspect streets daily and sweep street as needed. Require vehicles and workers to use stabilized entrance. Place crushed rock 12-inches deep over a geotextile, using angular rock between 4 and 6-in. Make the entrance as long as can be accommodated on the site, ideally long enough for 2 revolutions of the maximum tire size (16-20 feet long for most light trucks). Make the entrance wide enough to accommodate the largest vehicle that will access the site, ideally 10 feet wide with sufficient room for turning in and out of the site. Rumble pads or rumble racks can be used in lieu of or in conjunction with rock entrances. Wheel washes may be needed where space is limited or where the site entrance and sweeping is not effective. For more info see the following factsheets: CASQA: TC-1; TC-3; or Caltrans: TC-1; TC-3.
7	<b>Fiber Rolls</b> Use fiber rolls as a perimeter control measure, along contours of slopes, and around soil stockpiles. On slopes space rolls 10 to 20 feet apart (using closer spacing on steeper slopes). Install parallel to contour. If more than one roll is used in a row overlap roll do not abut. J-hook end of roll up slope. Install rolls per either Type 1 (stake rolls into shallow trenches) or Type 2 (stake in front and behind roll and lash with rope). Use wildlife-friendly fiber rolls made of biodegradable natural materials. Avoid using fiber rolls made with plastic netting or fixed aperture netting. See: <a href="http://www.coastal.ca.gov/nps/Wildlife-Friendly_Products.pdf">http://www.coastal.ca.gov/nps/Wildlife-Friendly_Products.pdf</a> . Manufactured linear sediment control or compost socks can be used in lieu of fiber rolls. For more info see the following factsheets: CASQA: SE-5 (Type 1); SE-12, SE-13; or Caltrans: SC-5 (Type 1 and Type 2).
8	<b>Silt Fence</b> Use silt fence as a perimeter control measure, and around soil stockpiles. Install silt fence along contours. Key silt fence into the soil and stake. Do not use silt fence for concentrated water flows. Install fence at least 3 feet back from the slope to allow for sediment storage. Wire backed fence can be used for extra strength. Avoid installing silt fence on slopes because they are hard to maintain. Manufactured linear sediment control can be used in lieu of silt fences. For more info see the following factsheets: CASQA: SE-1; SE-12; or Caltrans: SC-1.
9	<b>Drain Inlet Protection</b> Use gravel bags, (or similar product) around drain inlets located both onsite and in gutter as a last line of defense. Bags should be made of a woven fabric resistant to photo-degradation filled with 0.5-1-in washed crushed rock. Do not use sand bags or silt fence fabric for drain inlet protection. For more info see the following factsheets: CASQA: SE-10; or Caltrans: SC-10.
<b>Good Housekeeping Best Management Practices</b>	
10	<b>Concrete Washout</b> Construct a lined concrete washout site away from storm drains, waterbodies, or other drainages. Ideally, place adjacent to stabilized entrance. Clean as needed and remove at end of project. For more info see the following factsheets: CASQA: WM-8; or Caltrans: WM-8.
11	<b>Stockpile Management</b> Cover all stockpiles and landscape material and berm properly with fiber rolls or sand bags. Keep behind the silt fence perimeter control and away from waterbodies. For more info see the following factsheets: CASQA: WM-3 or Caltrans: WM-3.
12	<b>Hazardous Material Management</b> Hazardous materials must be kept in closed containers that are covered and within secondary containment; do not place containers directly on soil. For more info see the following factsheets: CASQA: WM-6; or Caltrans: WM-6.
13	<b>Sanitary Waste Management</b> Place portable toilets near stabilized site entrance, behind the curb and away from gutters, storm drain inlets, and waterbodies. Tie or stake portable toilets to prevent tipping and equip units with overflow pan/tray (most vendors provide these). For more info see the following factsheets: CASQA: WM-9; or Caltrans: WM-9.
14	<b>Equipment and Vehicle Maintenance</b> Prevent equipment fluid leaks onto ground by placing drip pans or plastic tarps under equipment. Immediately clean up any spills or drips. For more info see the following factsheets: CASQA: NS-8, NS-9, and NS-10; or Caltrans: NS-8, NS-9, and NS-10.
15	<b>Litter and Waste Management</b> Designate waste collection areas on site. Use watertight dumpsters and trash cans; inspect for leaks. Cover at the end of each work day and when it is raining or windy. Arrange for regular waste collection. Pick up site litter daily. For more info see the following factsheets: CASQA: WM-5; or Caltrans: WM-5.

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**CONTRA COSTA COUNTY STORMWATER POLLUTION PREVENTION PROGRAM**  
Minimum Control Measures For Small Construction Projects  
Department of Conservation and Development, 30 Muir Rd., Martinez, CA 94553 (925) 674-7200



Erosion Controls	Sediment Controls	Good Housekeeping
NS. Scheduling	6. Tracking Controls	10. Concrete Washout
1. Preserve Vegetation & Creek Set Backs	7. Fiber Rolls	11. Stockpile Management
2. Soil Cover	8. Silt Fence	12. Hazardous Material Management
3. Soil Preparation/ Roughening	9. Drain Inlet Protection	13. Sanitary Waste Management
4. Erosion Control Blankets	NS. Trench Dewatering	14. Equipment and Vehicle Maintenance
5. Revegetation		15. Litter and Waste Management

NS-not shown on graphic

NOTE: Select an effective combination of control measures from each category. Erosion Control, Sediment Control, and Good Housekeeping. Control measures shall be continually implemented and maintained throughout the project until activities are complete, disturbed areas are stabilized with permanent erosion controls, and the local agency has signed off on permits that may have been required for the project. Inspect and maintain the control measures before and after rain events, and as required by the local agency or state permit. More detailed information on the BMPs can be found in the related California Stormwater Quality Association (CASQA) and California Department of Transportation (Caltrans) BMP Factsheets. CASQA factsheets are available by subscription in the California Best Management Practices Handbook Portal: Construction at <http://www.casqa.org>. Caltrans factsheets are available in the Construction Site BMP Manual May 2017 at <http://www.dot.ca.gov/hq/construc/stormwater/CSBMP-May-2017-Final.pdf>.

BUILD ON: SANDS.NET

ACCEPTED FOR USE:

JOHN SAMUELSON  
City Engineer

Date:

City of Pittsburg

REVIVING THE HEART OF PITTSBURG PRIDE  
CITY & COUNTY BMPS SHEET

DATE	REV	DESCRIPTION	BY
6/29/23	2	BID SET, BID ADDENDUM 2	TZ
7/25/23			CG
			CC
			TZ

DATE: 7/7/23  
SCALE: AS SHOWN

### Contra Costa Clean Water Program

Program Participants: Antioch, Brentwood, Clayton, Concord, Dunville, El Cerrito, Hercules, Lafayette, Martinez, Moraga, Orinda, Pinole, Pittsburg, Pleasant Hill, Richmond, San Pablo, San Ramon, Walnut Creek, Contra Costa County and Contra Costa County Flood Control and Water Conservation District

## Pollution Prevention — It's Part of the Plan

Make sure your crews and subs do the job right!

Runoff from streets and other paved areas is a major source of pollution in San Francisco Bay and Delta. Construction activities can directly affect the health of the Bay unless contractors and crews plan ahead to keep dirt, debris, and other construction waste away from storm drains and local creeks. Following these guidelines will help ensure your compliance with local agency stormwater ordinance requirements.

#### Materials storage & spill cleanup

**Non-hazardous materials management**

- Store, dirt, and similar materials must be stored at least 10 feet from catch basins, and covered with a tarp during wet weather or when rain is forecast.
- Use (but don't overuse) recycled water for dust control as needed.
- If you must clean vehicles or equipment on-site, clean with water only in a bermed area that will not allow runoff to go into gutters, streets, storm drains, or creeks.
- Do not clean vehicles or equipment on-site using hoses, washers, degreasers, steam cleaning equipment, etc.

**Hazardous materials management**

- Label all hazardous materials and wastes (such as pesticides, paints, thinners, solvents, fuel oil, and antifreeze) in accordance with local agency, state, and federal regulations.
- Store hazardous materials and wastes in secondary containment and cover them during wet weather.
- Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- Be sure to arrange for appropriate disposal of all hazardous wastes.

**Spill prevention and control**

- Keep a stockpile of spill cleanup materials (sags, absorbents, etc.) available at construction sites at all times.
- When spills or leaks occur, contain them immediately and be particularly careful to prevent leaks and spills from reaching the gutter, street, or storm drain. Never wash spilled material into a gutter, street, storm drain, or creek!
- Report any hazardous materials spills immediately!

#### Vehicle and equipment maintenance & cleaning

- Inspect vehicles and equipment for leaks frequently. Use drip pans to catch leaks until repairs are made; repair leaks promptly.
- Flare and maintain vehicles only in a bermed area or over a drip pan that is big enough to prevent runoff!
- Do not clean vehicles or equipment on-site, clean with water only in a bermed area that will not allow runoff to go into gutters, streets, storm drains, or creeks.
- Do not clean vehicles or equipment on-site using hoses, washers, degreasers, steam cleaning equipment, etc.

**Earthwork & contaminated soils**

- Keep excavated soil on the site where it is least likely to collect in the street. Transfer to dump trucks should take place on the site, not in the street.
- Use straw bales, silt fences, or other control measures to increase the flow of silt off the site.
- Avoid scheduling earth moving activities during the rainy season. If possible, if grading activities during wet weather are allowed in your permit, be sure to implement all control measures necessary to prevent erosion.
- Minimize exposure to the best form of erosion control. Minimize disturbance to existing vegetation wherever possible.
- If you disturb a slope during construction, prevent erosion by covering the soil with erosion control fabric, seed with fast-growing grasses or other appropriate erosion control measures.
- If you suspect contamination (from site history, decontamination, fuel, lubricant, abandoned underground tanks or pipes, or buried debris), call the local agency.

#### Dewatering operations

- Reuse water for dust control, irrigation, or another on-site purpose to the greatest extent possible.
- Be sure to call the local agency before discharging water to a street, gutter, or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- In areas of known contamination, testing is required prior to reuse or discharge of groundwater. Consult with the local agency to determine what testing to do and to interpret results. Contaminated groundwater must be treated or treated effluent for proper disposal.

**Saw cutting**

- Always completely cover or barricade storm drain inlets when saw cutting. Use filter fabric, straw bales, sand bags, or fine gravel dams to keep slurry out of the storm drain system.
- Show, absorb, or vacuum sawcut slurry and pick up all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner).
- If saw cut slurry enters catch basins, clean it immediately.

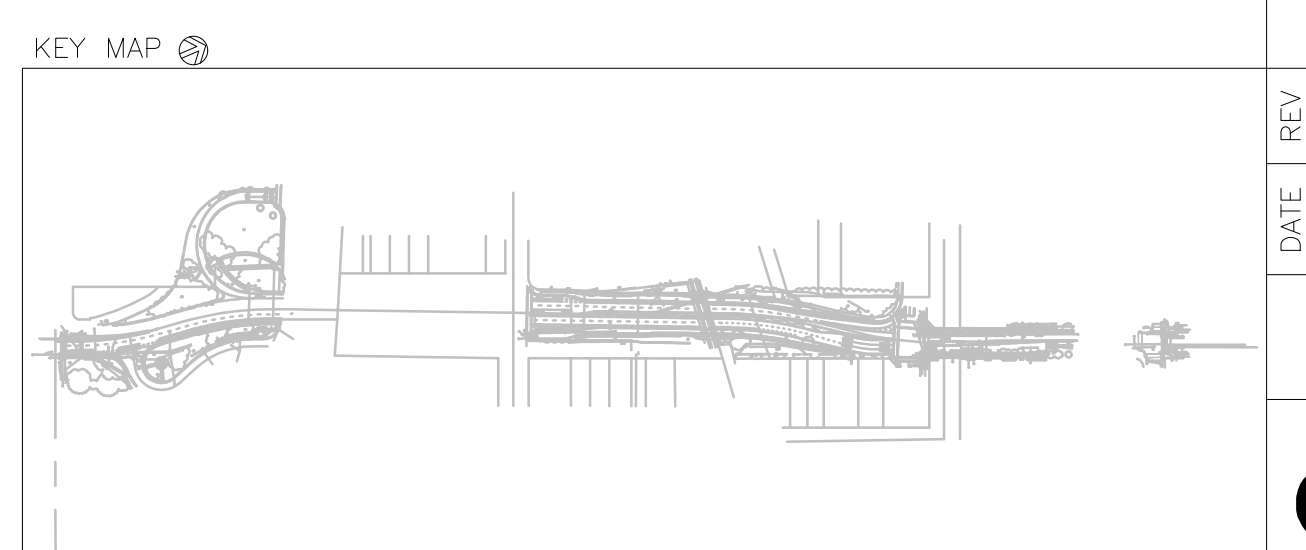
**Paving/asphalt work**

- Do not pave during wet weather or when rain is forecast.
- Always cover storm drain inlets and manholes when paving or applying seal coat, top coat, slurry seal, or fog seal.
- Place drip pans or absorbent material under panning equipment when not in use.
- Protect gutters, ditches, and drainage courses with straw bales, sand bags, or weathered berms.
- From sand washing into gutters, storm drains, or creeks. Control sand and return it to the stockpile, or dispose of it as trash.
- Do not use water to wash down fresh asphalt or concrete pavement.

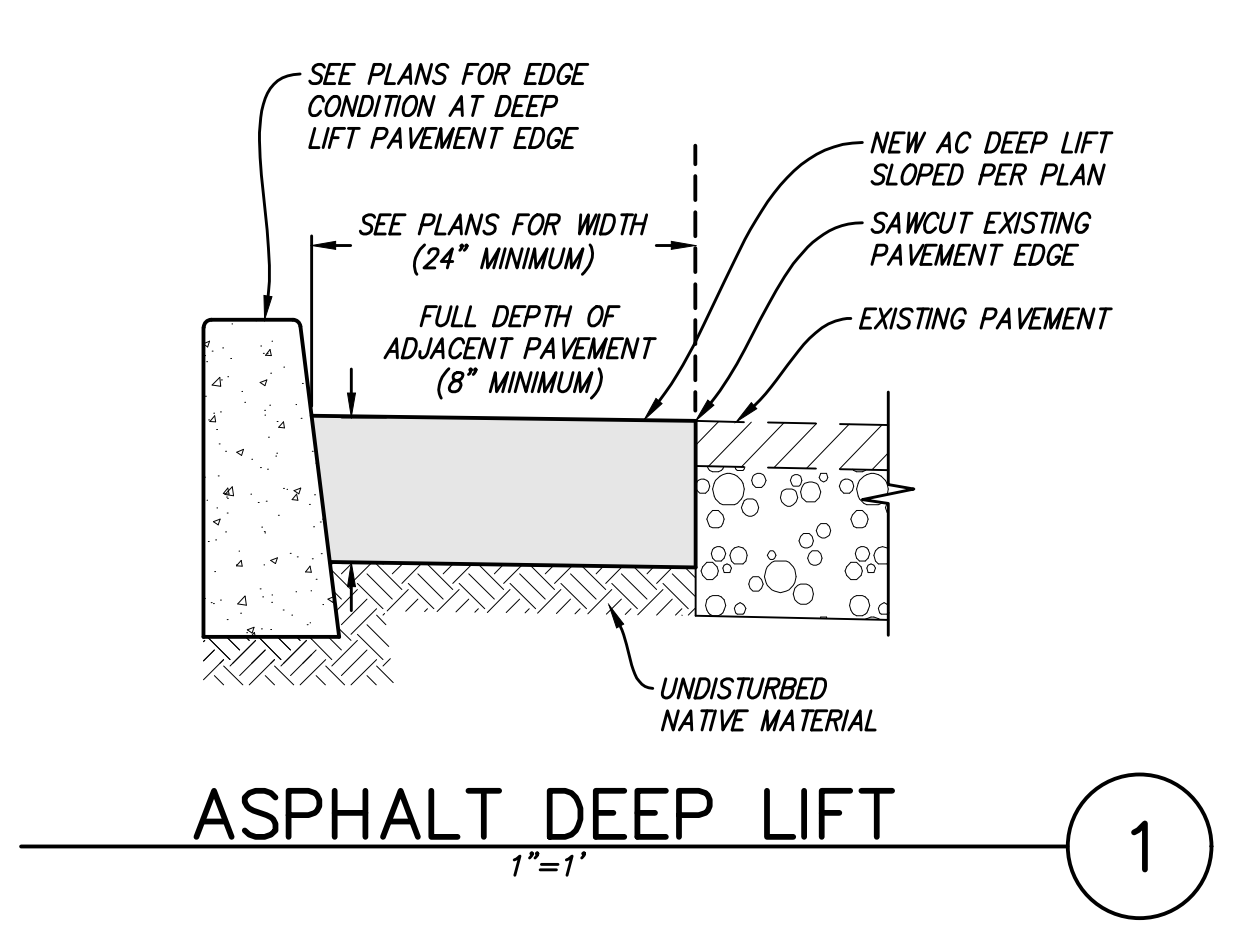
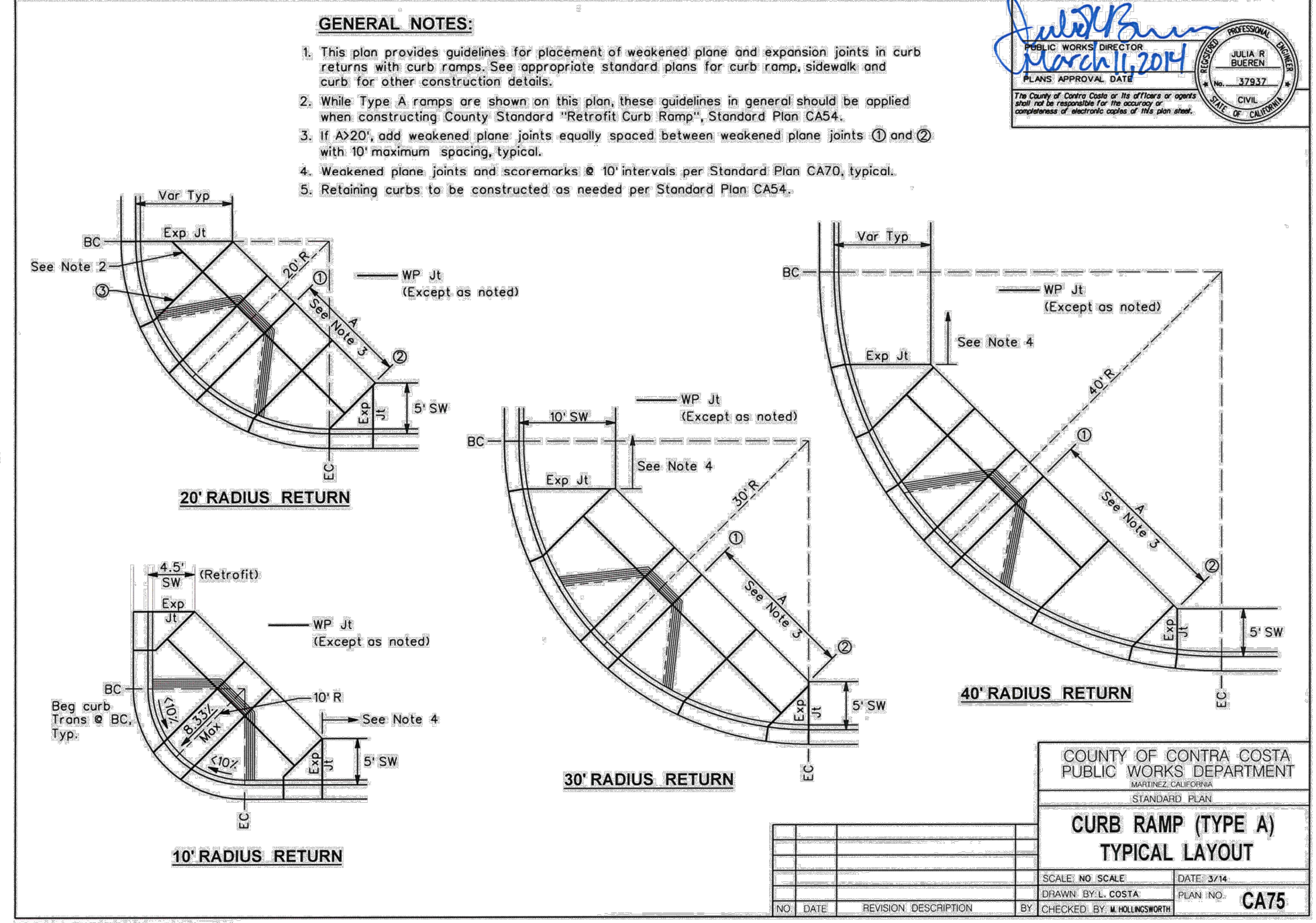
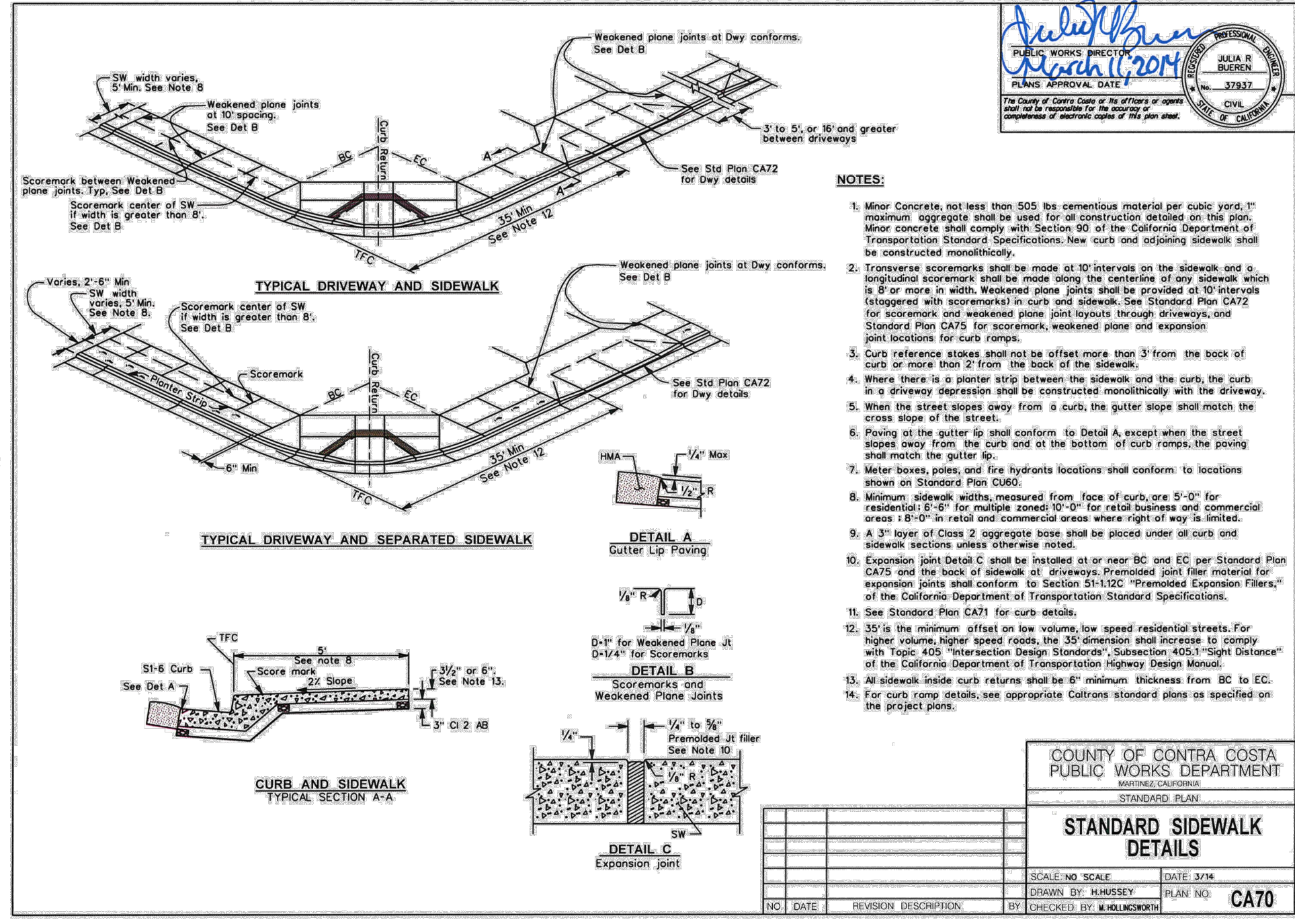
#### Concrete, grout, and mortar storage & waste disposal

- Be sure to store concrete, grout, and mortar under cover and away from drainage areas. These materials must never reach a storm drain.
- Wash out concrete equipment for trucks offsite or designate an on-site area for washing where water will flow onto dirt or into a temporary pit in a dirt area. Let the water seep into the soil and dispose of hardened concrete with trash.
- If a suitable dirt area is not available, collect the wash water and remove for appropriate disposal off-site.
- Down water from washing equipment aggregate concrete in a dirt area when it will not run into a gutter, street, or storm drain. If a suitable dirt area is not available, filter the wash water before discharging to a storm drain.
- Never rinse paint brushes or rollers in a gutter or street.
- Paint out excess water-based paint before mixing brushes, rollers, or containers in a sink. If you can't use a sink, direct wash water to a dirt area and apply 1 in.
- Paint out excess oil based paint before cleaning brushes in bin.
- Filter paint thinners and solvents for reuse whenever possible. Dispose of oil based paint and crushed thinner as hazardous waste.

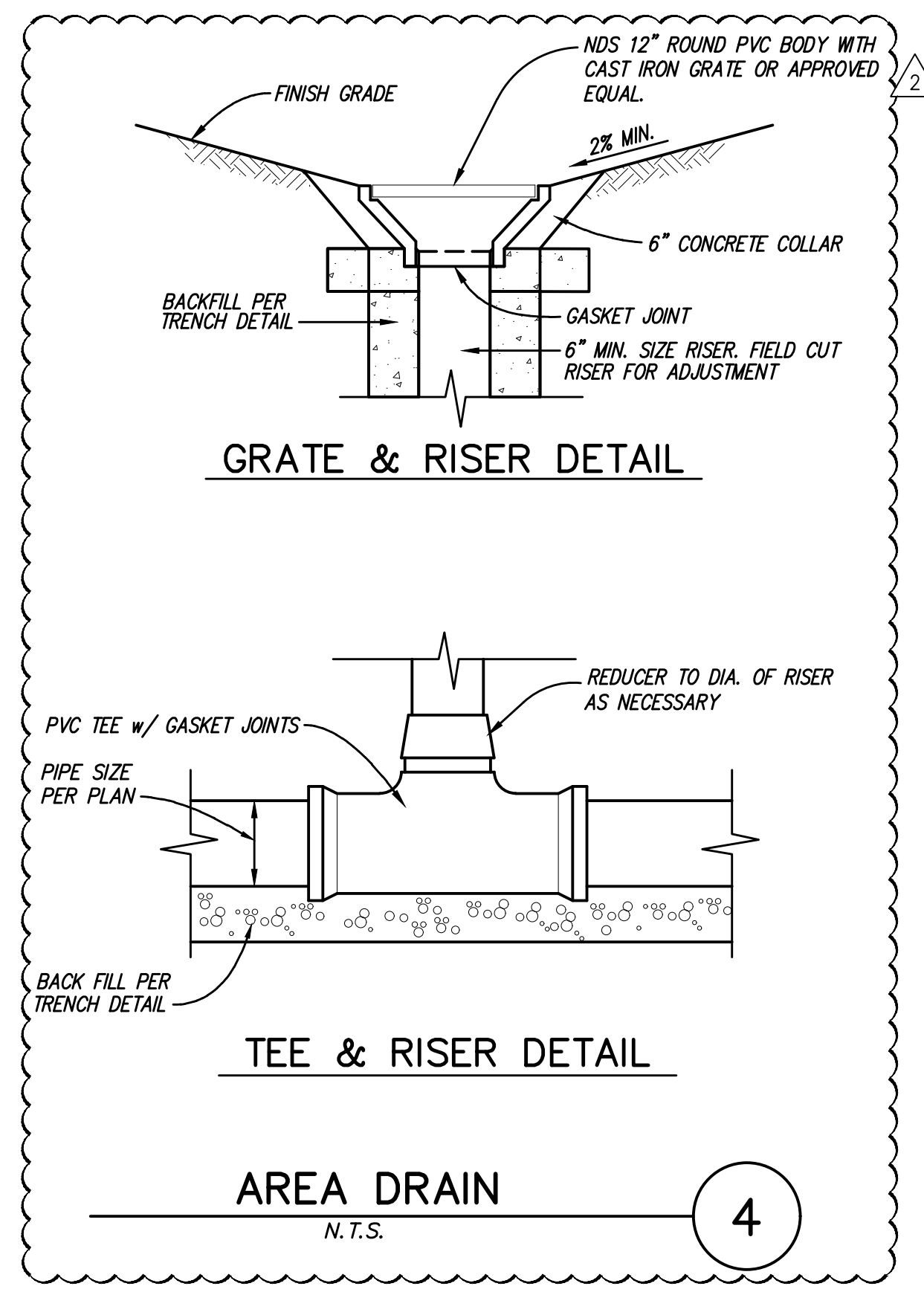
Storm drain pollutants may be liable for fines of up to \$10,000 per day plus \$10 per gallon!







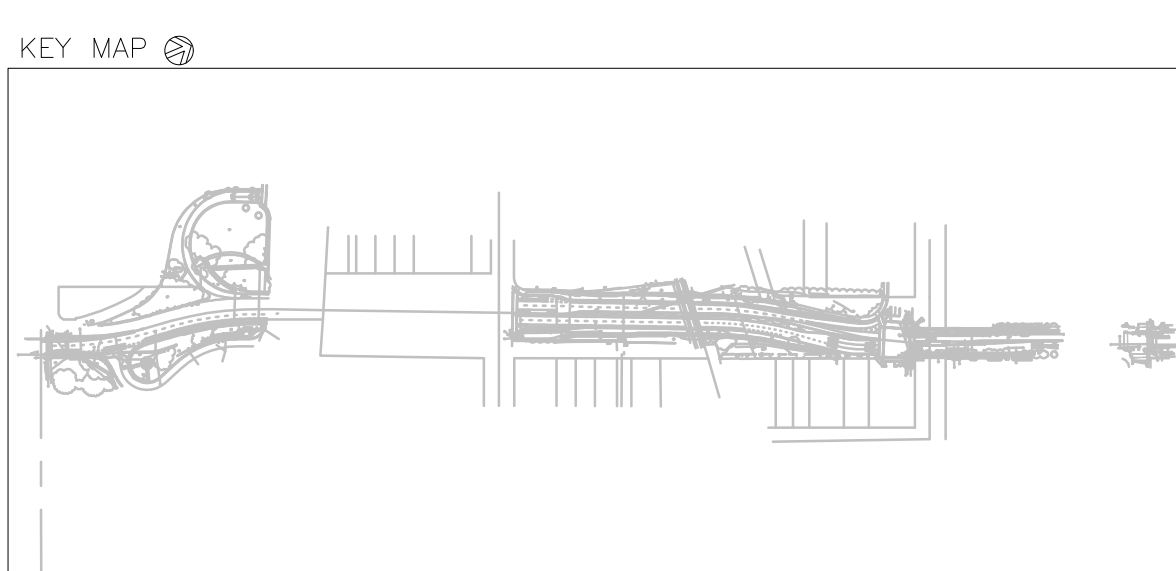
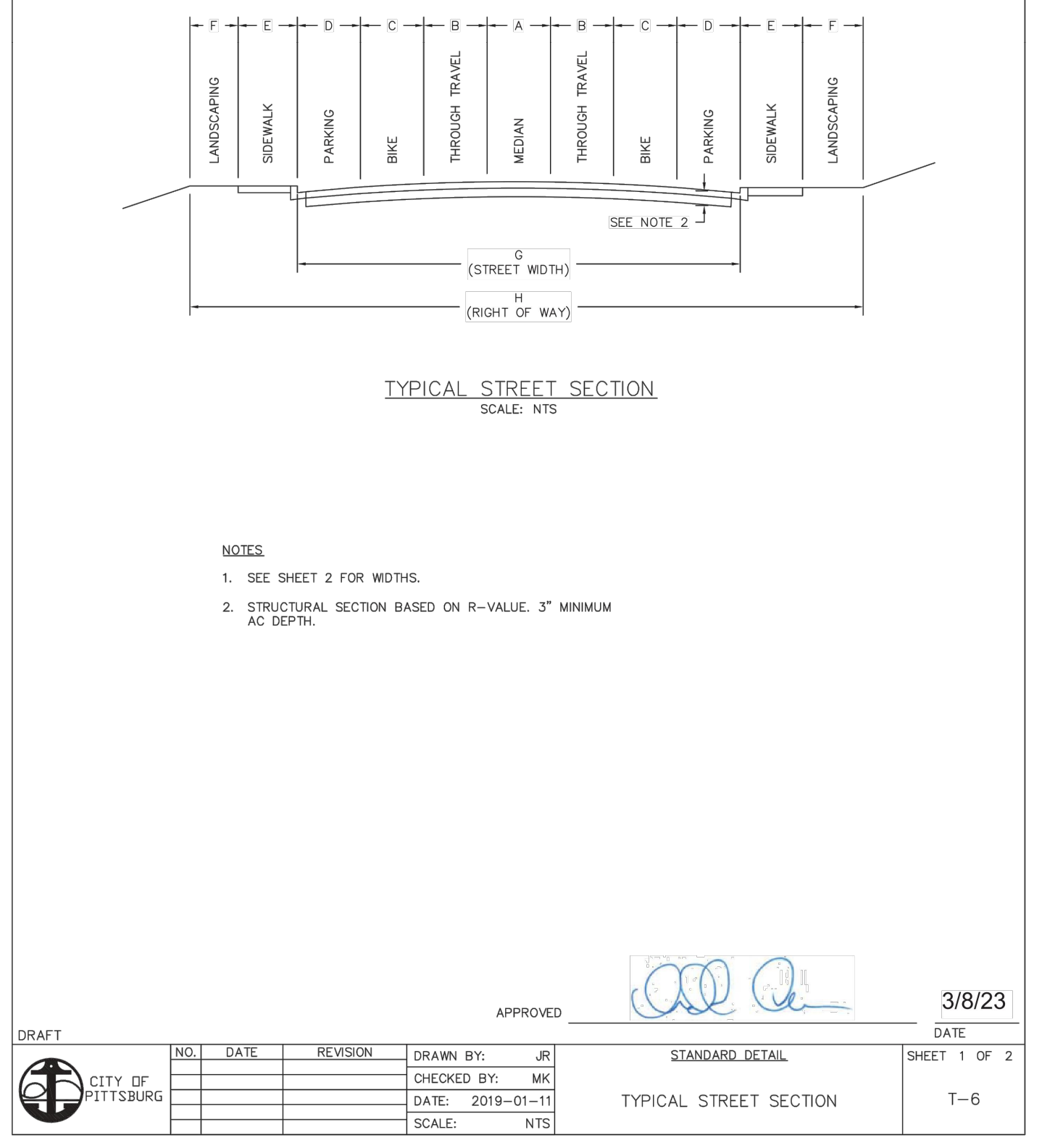
**OFFSITE SIDEWALK DETAIL** 3  
N.T.S.



**TYPE A CURB RAMP** 2  
N.T.S.

Street Classification	ADT <sup>1</sup> (vehicles per day)	Minimum Traffic Index (T.I.)	Minimum Design Speed (mph)	Maximum Grade (%)	Widths (feet)								
					A Median Lane	B Through Travel Lanes	C Bike Lane/ Shoulder <sup>2</sup>	D Parking Lanes <sup>3</sup>	E Sidewalk or Landscaping <sup>4</sup>	F Landscaping or Sidewalk <sup>5</sup>	G Street <sup>6</sup>	H Right-of-Way <sup>7</sup>	
<b>Residential</b>													
Private Driveway (serving 2 or more parcels) <sup>8,9</sup>	<40		20	15		7						14	14
Private Roadway <sup>4,5</sup>	40 to 1000		20	15		10						20	20
Cul-de-Sac <sup>1</sup>	<200	4.0	20	15		10	8	6				36	48
Local	<1000	4.5	30	12		10	8	6				36	48
Minor Collector	1000 to 3000	6.0	30	11		12	8	6				40	52
Major Collector (without abutted rights)	3001 to 5000	7.0	40	9		12	6		5	6		36	58
Major Collector (with abutted rights)	3001 to 5000	7.0	40	9		12	5	8	6	5		62	84
Arterial	>5000	8.0	55	7		16	24	8		10	10	80	120
<b>Non-Residential</b>													
Local	<1000	7.0	30	8		12	5	9	10	5	4	40	70
Collector	1000 to 5000	8.0	40	8		12	5	9	10	5	5	52	82
Major Arterial	>5000	9.5	55	7		16	25	8		10	10	82	122
<b>Hillside</b>													
Private Driveway (serving 2 or more parcels) <sup>8,9</sup>	<40		20	17		7						14	14
Private Roadway <sup>4,5,8</sup>	40 to 1000		20	16		10						20	20
Cul-de-Sac <sup>4,8,7</sup>	<200	4.0	25	15		10	6	5				32	42
Local <sup>8,7</sup>	<1000	4.5	25	14		10	6	5				32	42
Minor Collector	1000 to 3000	6.0	30	12		11	7	5				36	46
Major Collector (without abutted rights) <sup>8</sup>	3001 to 5000	7.0	30	11		11	5		5	6		32	54
Major Collector (with abutted rights) <sup>8,7</sup>	3001 to 5000	7.0	30	11		11	4	8	6	5		57	79
Arterial <sup>8</sup>	>5000	8.0	40	8		16	24	6		5	6	76	98

(1) Projected Average Daily Traffic. Using current Institute of Transportation Engineers' (ITE) trip generation rates.  
 (2) Sidewalk located adjacent to curb when ADT's 5500 vpd or where abutted rights have been relinquished, otherwise landscaping located between curb and sidewalk.  
 (3) Maximum length of Private Driveway = 150 feet.  
 (4) Maximum length of Public or Private Cul-de-Sac/Dead End street = 700 feet.  
 (5) Private access to multiple parcels must be approved by the City Engineer.  
 (6) Hillside Development Standards apply above 500 foot elevation.  
 (7) Parking lane and sidewalk may be eliminated on one side of street where grading does not allow development.  
 (8) 11' or 12' = painted median; 16' = raised median.  
 (9) Both sides.  
 (10) Face of curb / Edge of pavement to Face of curb / Edge of pavement, A+2B+2C+2D  
 (11) P.U.E.'s and slope grading not included, A+2B+2C+2D+2E+2F



**BUILD ON SANDS.NET**

**SANDS**

ACCEPTED FOR USE:  
 JOHN SAMUELSON  
 City Engineer

City of Pittsburg

**REVIVING THE HEART OF PITTSBURG PRIDE**

**CONSTRUCTION DETAILS**

DATE	REV	DESCRIPTION
6/30/23	1	BID SET
7/25/23	2	BID ADDENDUM 2

SHEET NO. OF 101

DWG. NO. **C-7.1**

