

WATER POLLUTION CONTROL DRAWINGS

FOR
ROUTE 88
STAGE 1

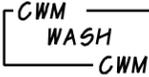
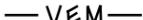
ANYTOWN COUNTY

CALTRANS CONTRACT NO. 00-000000

PREPARED BY:

ZZZ CONSTRUCTION COMPANY

LEGEND

-  DROP INLET & PIPE SYSTEM
-  DRAIN INLET & PIPE SYSTEM
-  OUTLET PROTECTION/
VELOCITY DISSIPATION DEVICE
-  CONCRETE WASH-OUT AREA
-  STORM DRAIN INLET PROTECTION
-  ENVIRONMENTALLY SENSITIVE AREA
-  SURFACE FLOW
DIRECTION
-  PIPE/UNDERGROUND
FLOW DIRECTION
-  WM-7-CONTAMINATED SOIL
MANAGEMENT
-  WM-8-CONCRETE WASTE MANAGEMENT
-  NS-8-VEHICLE & EQUIPMENT CLEANING
-  NS-9-VEHICLE & EQUIPMENT FUELING
-  NS-10-VEHICLE & EQUIPMENT
MAINTENANCE
-  SS-2-PRESERVATION OF EXISTING VEGETATION
-  SS-4-HYDROSEEDING
-  SS-6-STRAW MULCH
-  SS-5-SOIL BINDERS
-  TC-1-STABILIZED CONSTRUCTION ENTRANCE/EXIT
-  SS-11-SLOPE DRAINS
-  SS-9-EARTH DIKE/DRAINAGE
SWALES AND DITCHES
-  SC-4-CHECK DAMS
-  SC-1-SILT FENCES
-  SC-8-SAND BAG BARRIER
-  SC-3-SEDIMENT TRAPS
-  SC-5-FIBER ROLLS
-  STORMWATER DISCHARGE LOCATION

GENERAL WATER POLLUTION CONTROL NOTES

- 1 THE INFORMATION ON THESE DRAWINGS ARE ACCURATE FOR WATER POLLUTION CONTROL PURPOSES ONLY.
- 2 THE INFORMATION ON THIS PLAN IS INTENDED TO BE USED AS A GUIDELINE FOR THE CONTRACTOR AND SUBCONTRACTORS TO INSTALL WATER POLLUTION CONTROL DEVICES AT GENERAL LOCATIONS THROUGHOUT THE SITE. THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE NARRATIVE SECTION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
- 3 FIELD CONDITIONS MAY NECESSITATE MODIFICATIONS TO THESE DRAWINGS.
- 4 TEMPORARY SOIL STABILIZATION MEASURES WILL BE IMPLEMENTED 10 DAYS PRIOR TO THE START OF THE DEFINED RAINY SEASON AND AT REGULAR INTERVALS THROUGHOUT THE RAINY SEASON TO ACHIEVE AND MAINTAIN THE CONTRACT'S DISTURBED SOIL AREA (DSA) PROTECTION REQUIREMENTS (SEE CONTRACT SPECIFICATIONS).
- 5 PERMANENT EROSION CONTROL WILL BE INSTALLED AS AREAS ARE DETERMINED TO BE SUBSTANTIALLY COMPLETE.
- 6 ALL DRAINAGE INLETS RECEIVING RUNOFF FROM DISTURBED SOIL AREAS WILL BE PROTECTED WITH A SEDIMENT TRAP INLET PROTECTION.

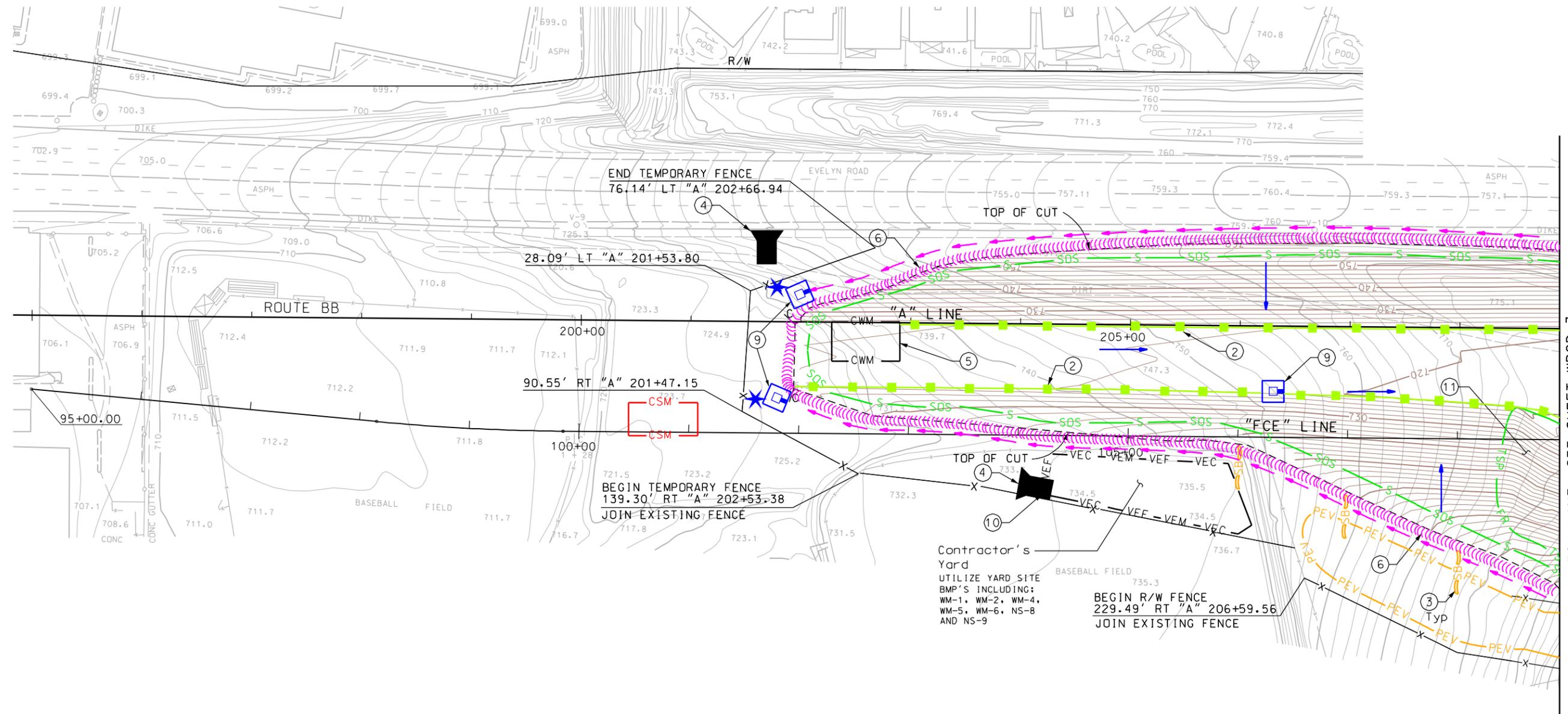
STORM WATER POLLUTION CONTROL CONSTRUCTION NOTES:

- ① INSTALL ROCK CHECK DAMS. SEE SC-4 FOR INSTALLATION INSTRUCTIONS.
- ② INSTALL SILT FENCE. SEE SC-1 FOR INSTALLATION INSTRUCTIONS AS INDICATED.
- ③ INSTALL CHECK DAMS AND/OR SANDBAG BARRIERS IN DIKE OR CHANNEL CENTERLINE, MAXIMUM SPACING OF 100 FEET BETWEEN CHECK DAMS OR GRAVEL BAGS. SEE SC-4 AND SC-8 FOR INSTALLATION INSTRUCTIONS.
- ④ STABILIZED CONSTRUCTION ENTRANCE/EXIT. SEE TC-1 FOR INSTALLATION INSTRUCTIONS.
- ⑤ INSTALL CONCRETE WASTE MANAGEMENT CONTROL. SEE WM-8 FOR INSTALLATION INSTRUCTIONS.
- ⑥ INSTALL EARTH BERMS DURING EXCAVATION STAGING. SEE SS-9 FOR INSTALLATION INSTRUCTIONS.
- ⑦ SURFACE ROUGHENING REQUIRED ON ALL SLOPES PRIOR TO APPLYING SOIL BINDERS (ON ACTIVE SLOPE OR ROADWAY) AND/OR STRAW MULCH (ON INACTIVE SLOPES ONLY). SEE SS-5 AND SS-6 FOR STANDARDS AND SPECIFICATIONS. INACTIVE SLOPES GREATER THAN 60 FEET IN HEIGHT SHALL RECEIVE "HYDROSEEDING AND PLANTING" PER SS-4.
- ⑧ INSTALL SLOPE DRAINS WITH OUTLET ENERGY DISSIPATER. SEE SS-10 AND SS-11 FOR INSTALLATION INSTRUCTIONS.
- ⑨ SEDIMENT TRAP. SEE SS-3 FOR INSTALLATION INSTRUCTIONS.
- ⑩ COMBINED VEHICLE CLEANING, FUELING AND MAINTENANCE STORAGE AREA. SEE NS-8, NS-9, AND NS-10 FOR INSTALLATION INSTRUCTIONS.
- ⑪ INSTALL FIBER ROLLS FOR SLOPES GREATER THAN 90 FEET IN HEIGHT. SEE SC-5 FOR INSTALLATION INSTRUCTIONS.

WPCD-1

| | | | | | |
|--------------------------------|----------|---|-------|-------|------|
| ZZZ CONSTRUCTION COMPANY | | WATER POLLUTION CONTROL DRAWINGS TITLE SHEET | | | |
| DRAWN | D. J. D. | SIZE | A | SCALE | NONE |
| APPROVED | | DATE | 11/00 | REV | 0 |
| | | SHEET | 1 | OF | 1 |

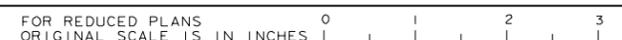
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| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | PROJECT ENGINEER | CALCULATED/DESIGNED BY | DATE | REVISED BY |
| Stantec | | CHECKED BY | | DATE REVISED |



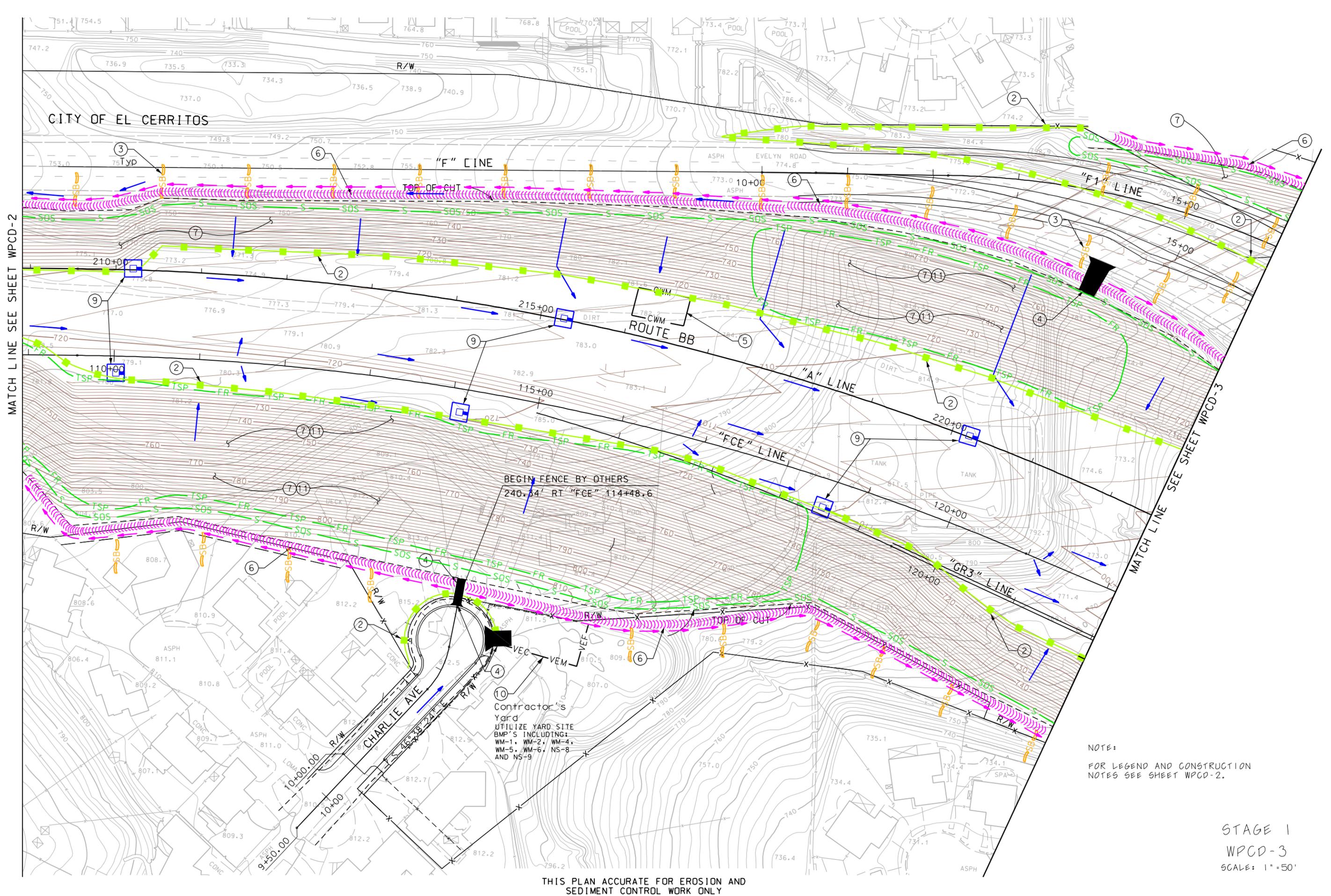
MATCH LINE SEE SHEET WPCD-3

STAGE 1
WPCD-2
SCALE: 1" = 50'

THIS PLAN ACCURATE FOR EROSION AND SEDIMENT CONTROL WORK ONLY



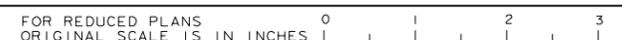
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 PROJECT ENGINEER
 CALCULATED/DESIGNED BY
 CHECKED BY
 DATE
 REVISED BY
 DATE REVISED



NOTE:
 FOR LEGEND AND CONSTRUCTION
 NOTES SEE SHEET WPCD-2.

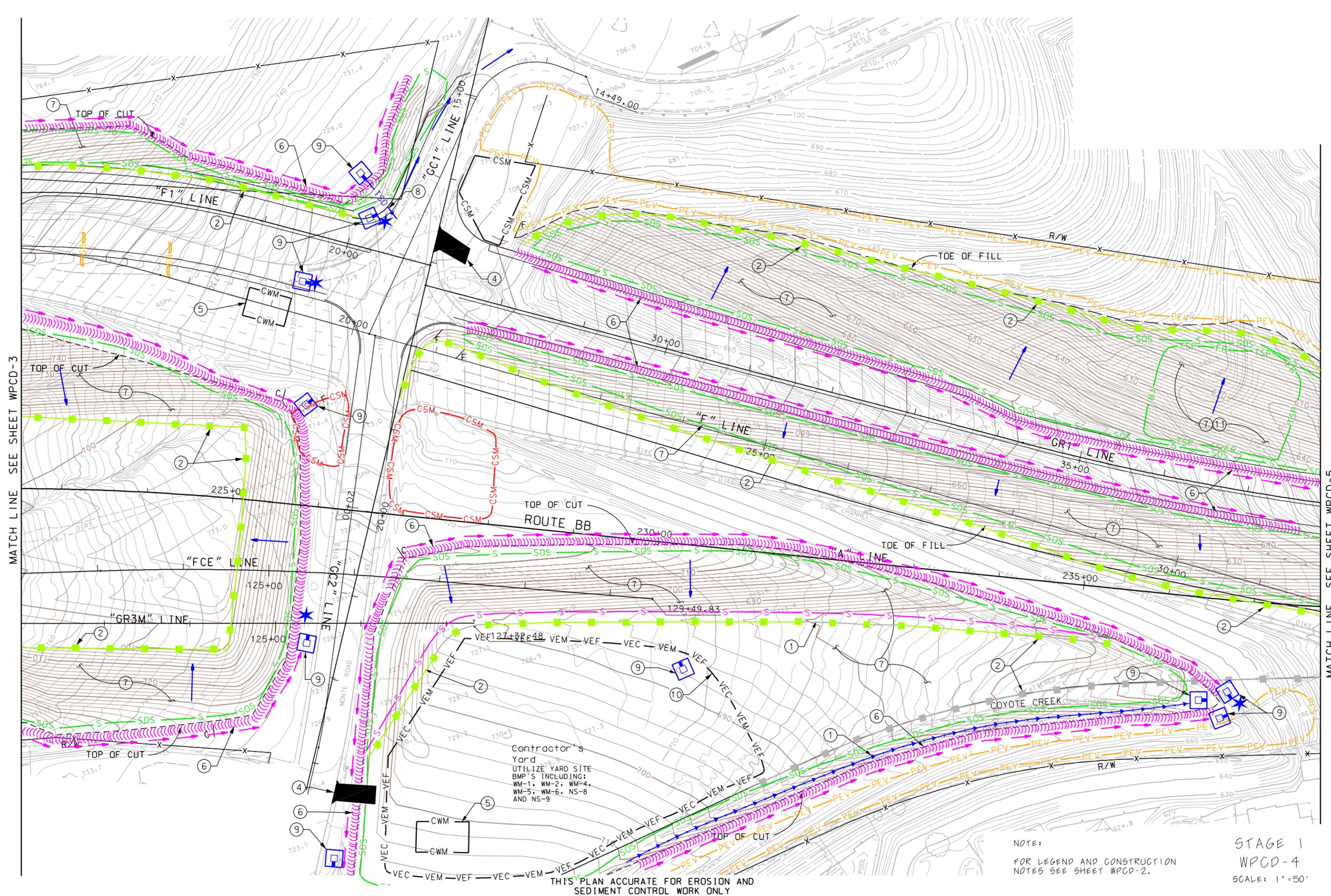
STAGE 1
 WPCD-3
 SCALE: 1"=50'

THIS PLAN ACCURATE FOR EROSION AND
 SEDIMENT CONTROL WORK ONLY



LAST REVISION \$\$\$\$\$\$DCNSPEC\$\$\$\$\$\$SYTIME\$\$\$\$\$\$ \$\$\$\$\$\$USER\$\$\$\$\$\$

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| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | PROJECT ENGINEER | CALCULATED/DESIGNED BY | DATE | REVISED BY |
| Caltrans | | CHECKED BY | | DATE REVISED |

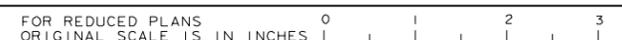


Contractor's
Yard
UTILIZE YARD SITE
BMP'S INCLUDING:
WM-1, WM-2, WM-4,
WM-5, WM-6, NS-8
AND NS-9

THIS PLAN ACCURATE FOR EROSION AND
SEDIMENT CONTROL WORK ONLY

NOTE:
FOR LEGEND AND CONSTRUCTION
NOTES SEE SHEET WPCD-2.

STAGE 1
WPCD-4
SCALE: 1"=50'



LAST REVISION \$\$\$\$\$\$DCNSPEC\$\$\$\$\$\$SYTIME\$\$\$\$\$\$USER\$\$\$\$\$\$

WATER POLLUTION CONTROL DRAWINGS

FOR

ROUTE 88

STAGE 2

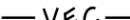
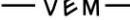
ANYTOWN COUNTY

CALTRANS CONTRACT NO. 00-000000

PREPARED BY:

ZZZ CONSTRUCTION COMPANY

LEGEND

-  DROP INLET & PIPE SYSTEM
-  DRAIN INLET & PIPE SYSTEM
-  CONCRETE WASH-OUT AREA
-  ENVIRONMENTALLY SENSITIVE AREA
-  SURFACE FLOW DIRECTION
-  PIPE/UNDERGROUND FLOW DIRECTION
-  NS-1-DEWATERING
-  NS-3-PAVING OPERATIONS
-  WM-8-CONCRETE WASTE MANAGEMENT
-  NS-8-VEHICLE & EQUIPMENT CLEANING
-  NS-9-VEHICLE & EQUIPMENT FUELING
-  NS-10-VEHICLE & EQUIPMENT MAINTENANCE
-  SS-2-PRESERVATION OF EXISTING VEGETATION
-  TC-1-STABILIZED CONSTRUCTION ENTRANCE/EXIT
-  CS-10-OUTLET PROTECTION/VELOCITY DISSIPATION DEVICES
-  SS-8-SAND BAG BARRIER
-  SS-13-STORM DRAIN INLET PROTECTION
-  SS-3-SEDIMENT TRAPS
-  SS-5-FIBER ROLLS
-  PERMANENT SEEDING & PLANTING
-  STORMWATER DISCHARGE LOCATION

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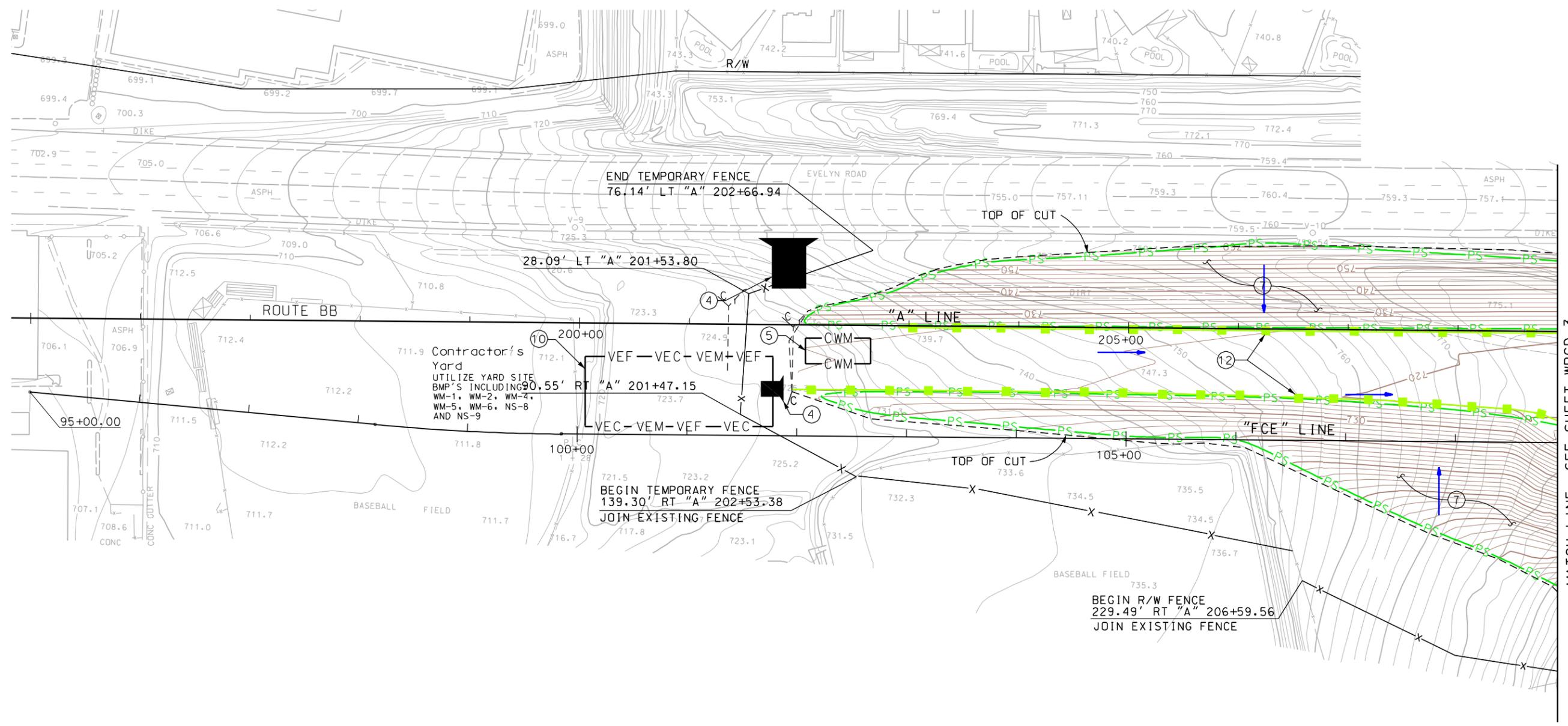
STORM WATER POLLUTION CONTROL CONSTRUCTION NOTES:

- ① INSTALL STORM DRAIN INLET PROTECTION AT DROP INLET STRUCTURES. APPROXIMATE LOCATIONS ARE SHOWN ON THE DRAWINGS. SEE SS-10 FOR INSTALLATION INSTRUCTIONS.
- ② PAVING OPERATIONS, NS-3.
- ③ INSTALL CHECK DAMS AND/OR SANDBAG BARRIERS IN DIKE OR CHANNEL CENTERLINE, MAXIMUM SPACING OF 100 FEET BETWEEN CHECK DAMS OR SANDBAGS. SEE SC-4 AND SC-8 FOR INSTALLATION INSTRUCTIONS.
- ④ STABILIZED CONSTRUCTION ENTRANCE/EXIT. SEE TC-1 FOR INSTALLATION INSTRUCTIONS.
- ⑤ INSTALL CONCRETE WASTE MANAGEMENT CONTROL. SEE WM-8 FOR INSTALLATION INSTRUCTIONS.
- ⑥ DEWATERING OPERATIONS DURING TRENCHING FOR PIPE INSTALLATION, SEE NS-2.
- ⑦ APPLY PERMANENT SEEDING AND PLANTING TO FINISHED AREA. SURFACE ROUGHENING IS REQUIRED ON ALL FINISHED SLOPES PRIOR TO APPLICATION OF PERMANENT SEEDING.
- ⑧ PIPE OUTLET ENERGY DISSIPATOR. SEE SS-10 FOR INSTALLATION INSTRUCTIONS.
- ⑨ SEDIMENT TRAP. SEE SS-3 FOR INSTALLATION INSTRUCTIONS.
- ⑩ COMBINED VEHICLE CLEANING, FUELING AND MAINTENANCE AND STORAGE AREA. SEE NS-8, NS-9, AND NS-10 FOR INSTALLATION INSTRUCTIONS.
- ⑪ INSTALL FIBER ROLLS AS NEEDED FOR SLOPES GREATER THAN 90 FEET HIGH. SEE SC-5 FOR INSTALLATION INSTRUCTIONS.
- ⑫ SILT FENCE TO BE REMOVED AFTER FINAL STABILIZATION, PERMANENT SEEDING AND PLANTING IS COMPLETED AND AS DIRECTED BY THE RESIDENT ENGINEER.

WPCD-7

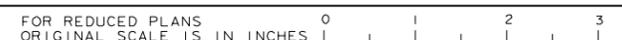
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| ZZZ CONSTRUCTION COMPANY | | WATER POLLUTION CONTROL DRAWINGS TITLE SHEET | | | | |
| DRAWN | D. J. D. | SIZE | SCALE | DATE | REV | SHEET |
| APPROVED | | A | NONE | 11/00 | 0 | 1 OF 1 |

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| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | PROJECT ENGINEER | CALCULATED/DESIGNED BY | DATE | REVISED BY | DATE |
| Stantec | | CHECKED BY | | | |
| FORM DC-OE-92-PF (REV. 3/88) | | | | | |



MATCH LINE SEE SHEET WPCD-3

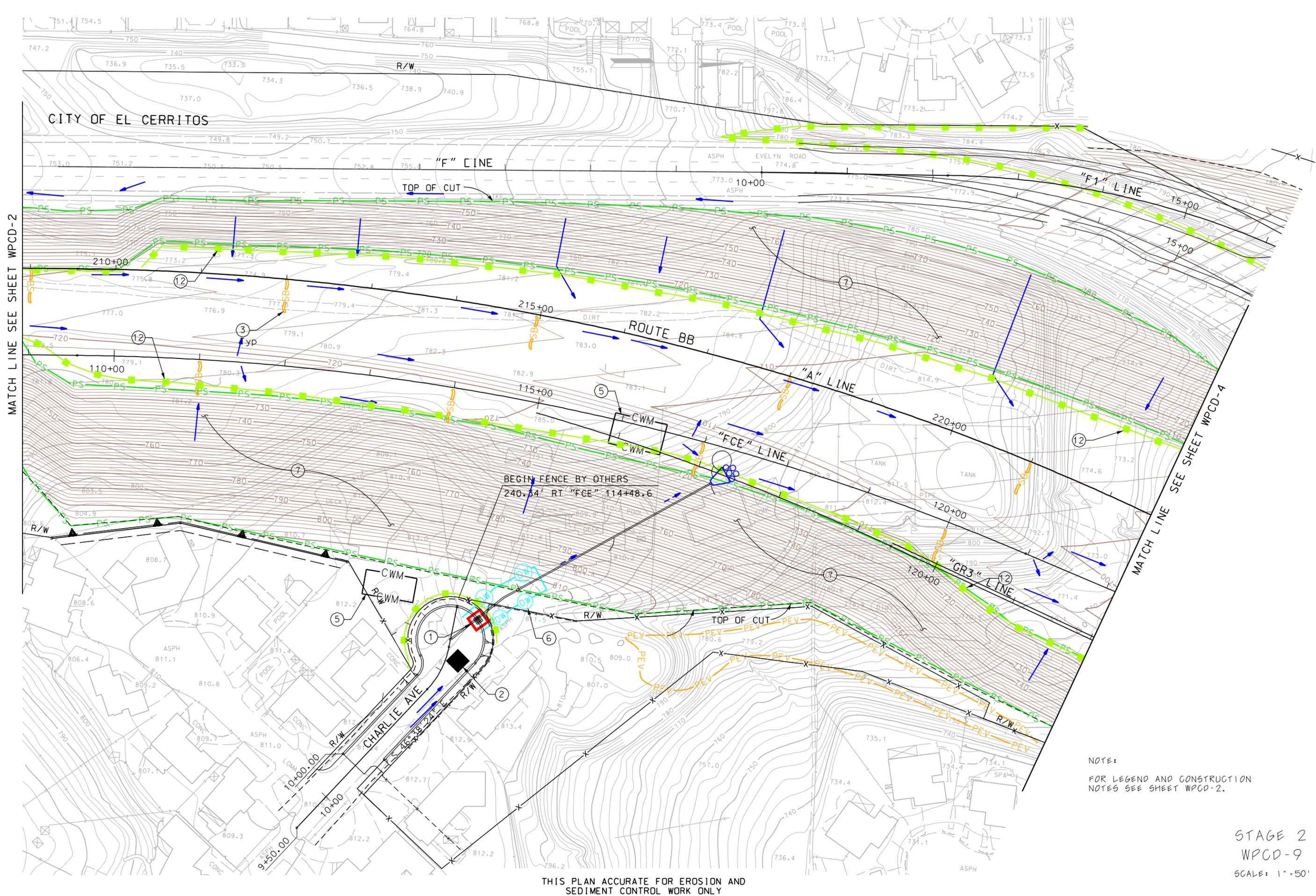
THIS PLAN ACCURATE FOR EROSION AND SEDIMENT CONTROL WORK ONLY



STAGE 2
WPCD-8
SCALE: 1" = 50'

LAST REVISION \$\$\$\$\$\$DCNSPEC\$\$\$\$\$\$SYTIME\$\$\$\$\$\$USER\$\$\$\$\$\$

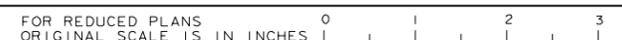
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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NOTE:
 FOR LEGEND AND CONSTRUCTION NOTES SEE SHEET WPCD-2.

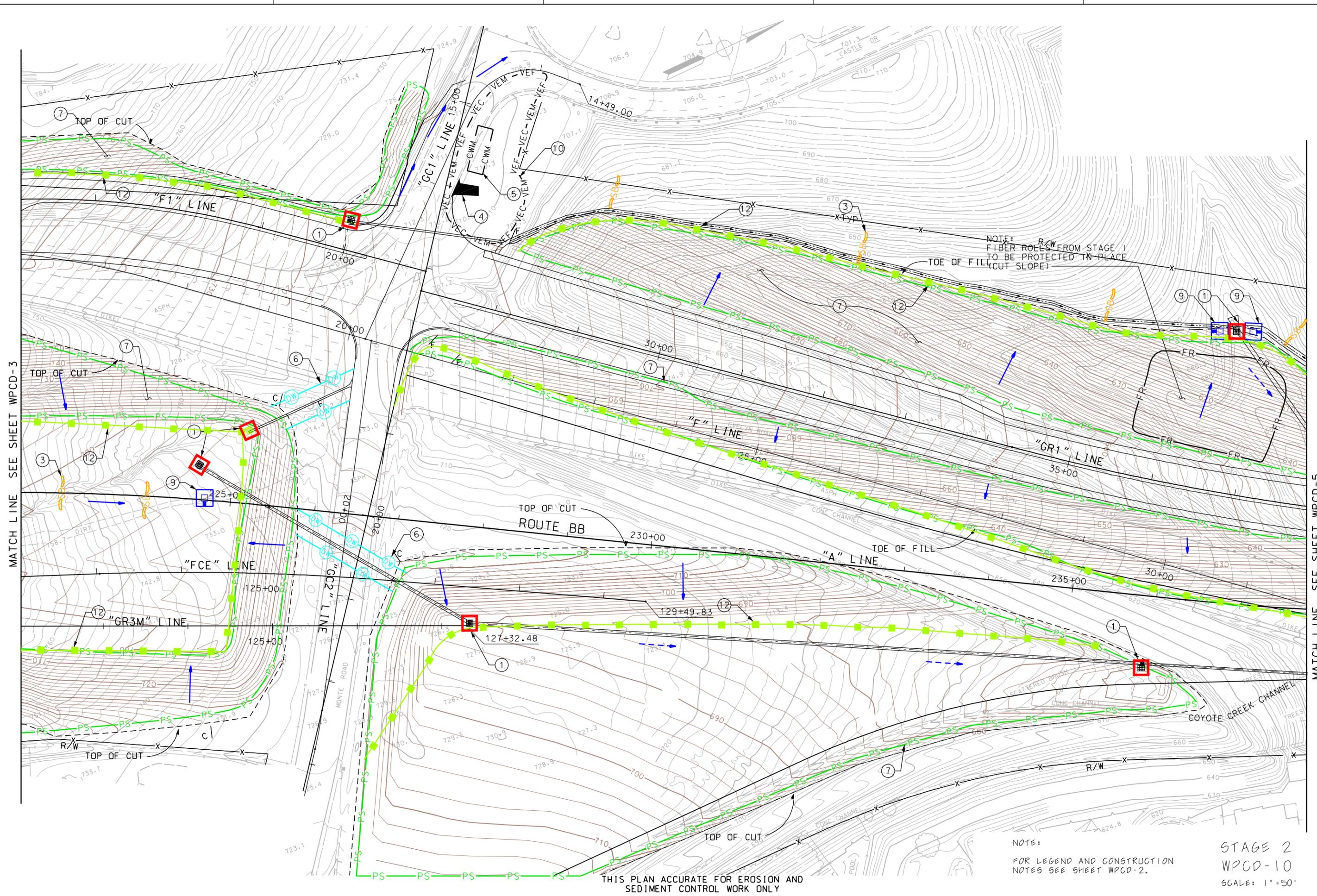
STAGE 2
 WPCD-9
 SCALE: 1" = 50'

THIS PLAN ACCURATE FOR EROSION AND SEDIMENT CONTROL WORK ONLY



LAST REVISION \$\$\$\$\$\$DCMSPEC\$\$\$\$\$\$SYTIME\$\$\$\$\$\$ \$\$\$\$\$\$USER\$\$\$\$\$\$

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| Caltrans | | CHECKED BY | | DATE REVISED |



MATCH LINE SEE SHEET WPCD-3

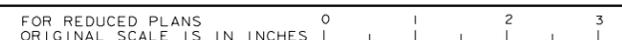
MATCH LINE SEE SHEET WPCD-5

NOTE:
R/W FROM STAGE 1
TO BE PROTECTED IN PLACE
(CUT SLOPE)

NOTE:
FOR LEGEND AND CONSTRUCTION
NOTES SEE SHEET WPCD-2.

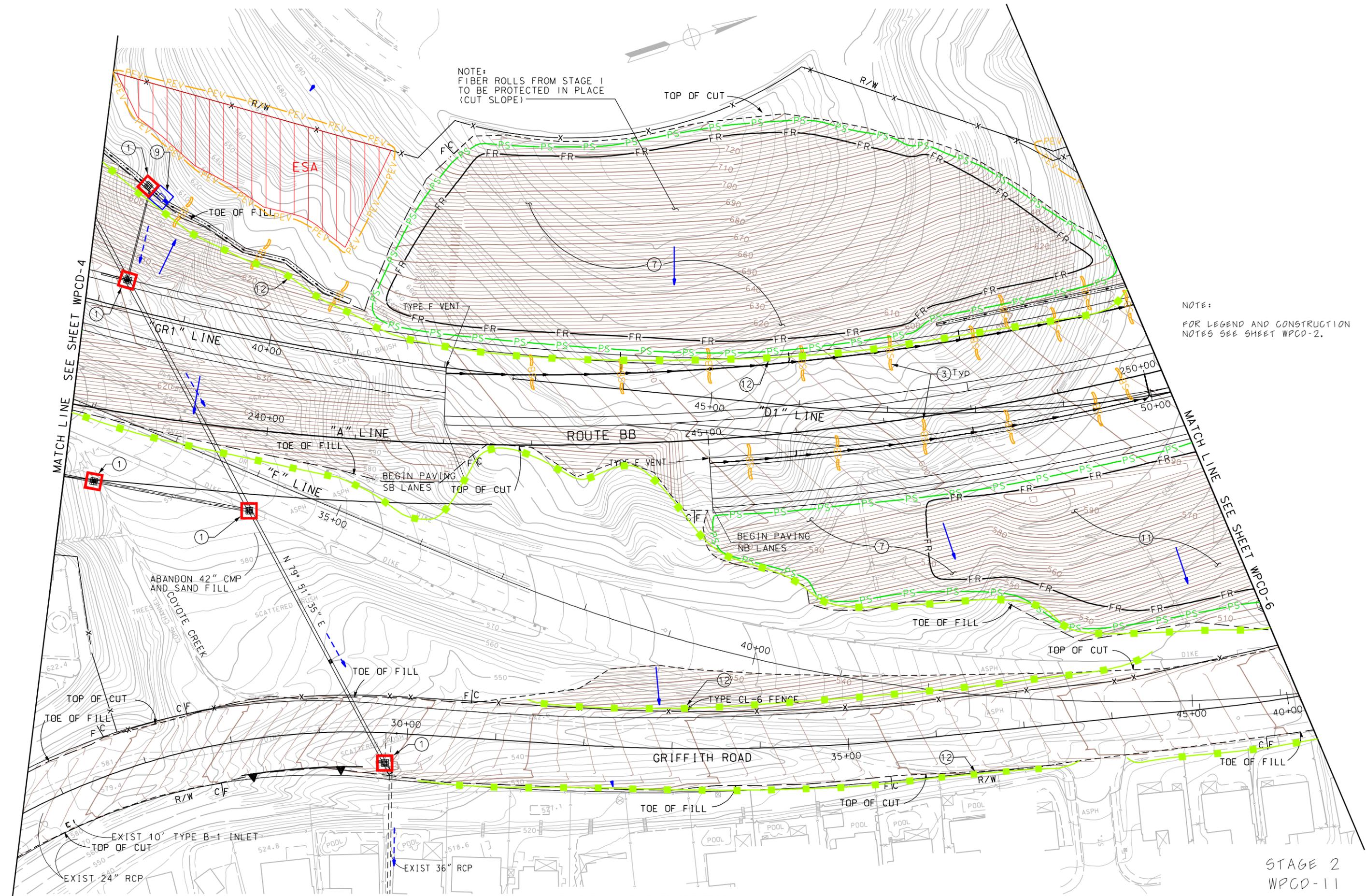
STAGE 2
WPCD-10
SCALE: 1" = 50'

THIS PLAN ACCURATE FOR EROSION AND
SEDIMENT CONTROL WORK ONLY



LAST REVISION \$\$\$\$\$\$DC\$SPEC\$\$\$\$\$SYTIME\$\$\$\$\$USER\$\$\$\$\$

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| Stantec | | CHECKED BY | | DATE REVISED |

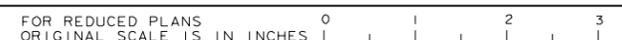


NOTE:
FIBER ROLLS FROM STAGE I
TO BE PROTECTED IN PLACE
(CUT SLOPE)

NOTE:
FOR LEGEND AND CONSTRUCTION
NOTES SEE SHEET WPCD-2.

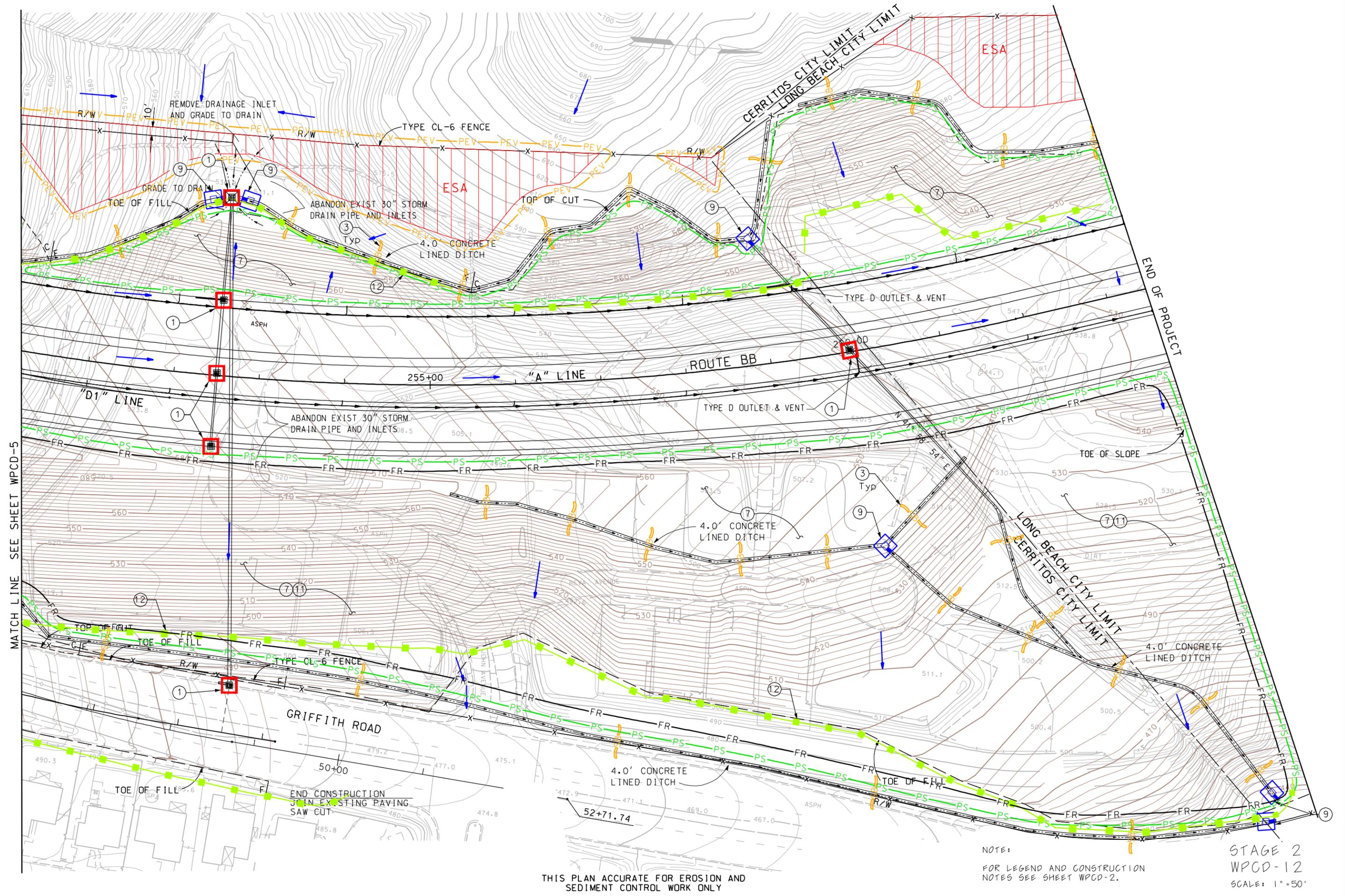
THIS PLAN ACCURATE FOR EROSION AND
SEDIMENT CONTROL WORK ONLY

STAGE 2
WPCD-11
SCALE: 1" = 50'



\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$USER\$\$\$\$\$
\$\$\$\$\$REVISION\$\$\$\$\$

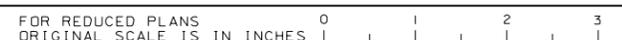
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| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | PROJECT ENGINEER | CALCULATED/DESIGNED BY | DATE | REVISED BY |
| Stantec | | CHECKED BY | | DATE REVISED |



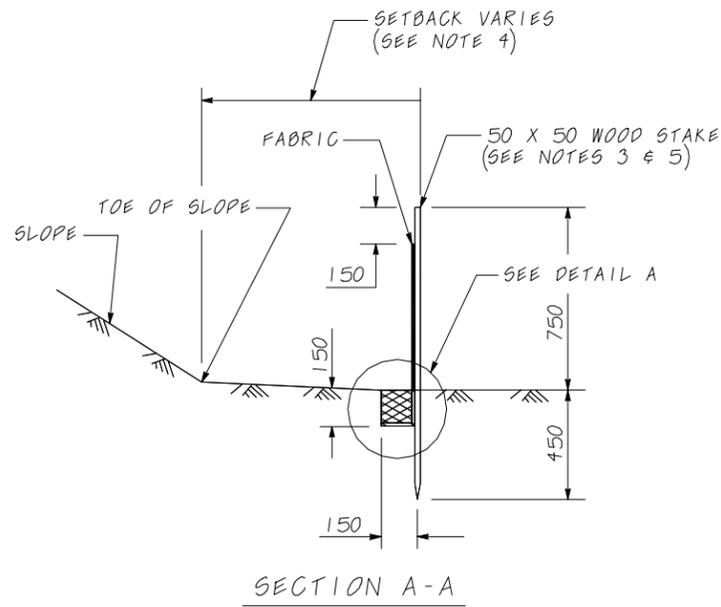
THIS PLAN ACCURATE FOR EROSION AND SEDIMENT CONTROL WORK ONLY

NOTE:
FOR LEGEND AND CONSTRUCTION NOTES SEE SHEET WPCD-2.

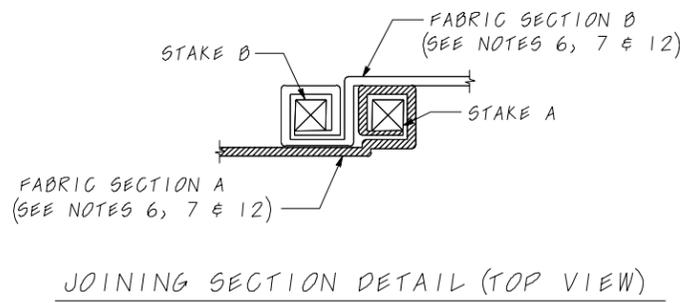
STAGE 2
WPCD-12
SCALE: 1"=50'



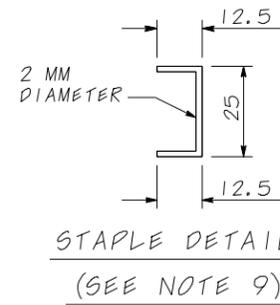
LAST REVISION



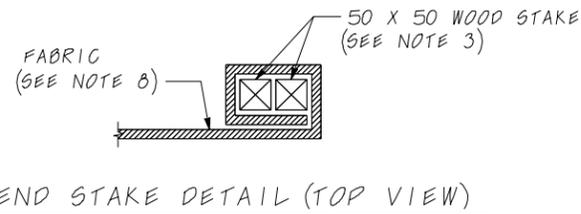
SECTION A-A



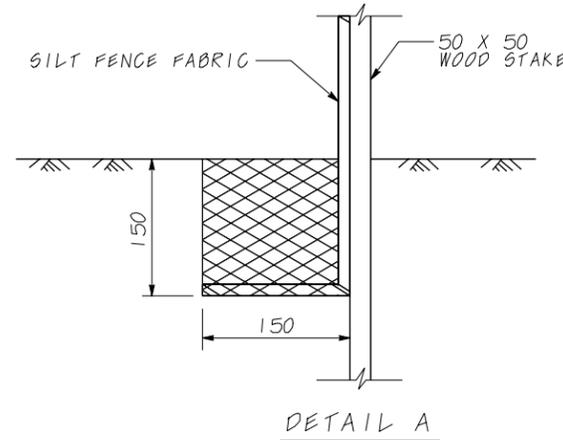
JOINING SECTION DETAIL (TOP VIEW)



STAPLE DETAIL
(SEE NOTE 9)



END STAKE DETAIL (TOP VIEW)



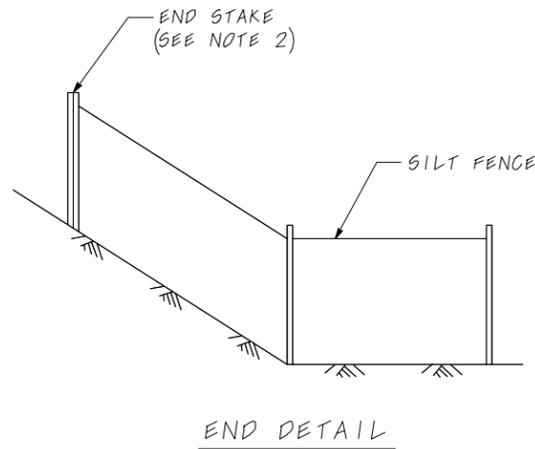
DETAIL A

NOTES

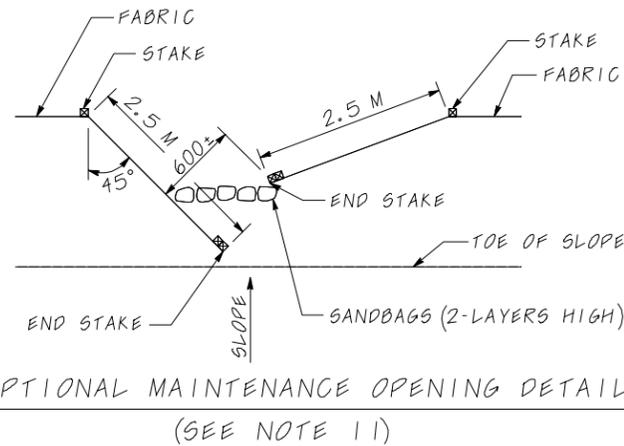
1. CONSTRUCT THE LENGTH OF EACH REACH SO THAT THE CHANGE IN BASE ELEVATION ALONG THE REACH DOES NOT EXCEED 1/3 THE HEIGHT OF THE LINEAR BARRIER, IN NO CASE SHALL THE REACH LENGTH EXCEED 150M.
2. THE LAST 2.5 M OF FENCE SHALL BE TURNED UP SLOPE.
3. STAKE DIMENSIONS ARE NOMINAL.
4. DIMENSION MAY VARY TO FIT FIELD CONDITION.
5. STAKES SHALL BE SPACED AT 2.5 M MAXIMUM AND SHALL BE POSITIONED ON DOWNSTREAM SIDE OF FENCE.
6. STAKES TO OVERLAP AND FENCE FABRIC TO FOLD AROUND EACH STAKE ONE FULL TURN. SECURE FABRIC TO STAKE WITH 4 STAPLES.
7. STAKES SHALL BE DRIVEN TIGHTLY TOGETHER TO PREVENT POTENTIAL FLOW-THROUGH OF SEDIMENT AT JOINT. THE TOPS OF THE STAKES SHALL BE SECURED WITH WIRE.
8. FOR END STAKE, FENCE FABRIC SHALL BE FOLDED AROUND TWO STAKES ONE FULL TURN AND SECURED WITH 4 STAPLES.
9. MINIMUM 4 STAPLES PER STAKE. DIMENSIONS SHOWN ARE TYPICAL.
10. CROSS BARRIERS SHALL BE A MINIMUM OF 1/3 AND A MAXIMUM OF 1/2 THE HEIGHT OF THE LINEAR BARRIER.
11. MAINTENANCE OPENINGS SHALL BE CONSTRUCTED IN A MANNER TO ENSURE SEDIMENT REMAINS BEHIND SILT FENCE.
12. JOINING SECTIONS SHALL NOT BE PLACED AT SUMP LOCATIONS.
13. SANDBAG ROWS AND LAYERS SHALL BE OFFSET TO ELIMINATE GAPS.

LEGEND

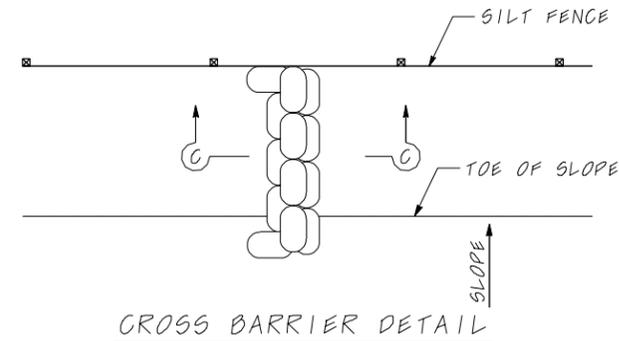
- TAMPED BACKFILL
- SLOPE DIRECTION
- DIRECTION OF FLOW



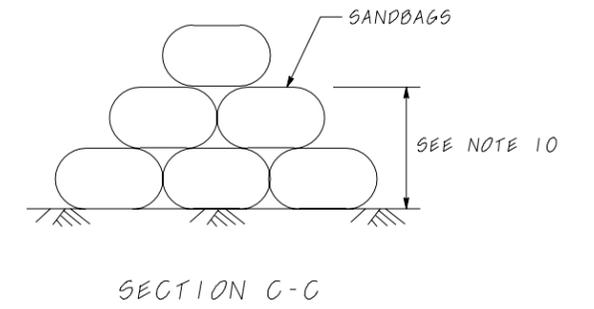
END DETAIL



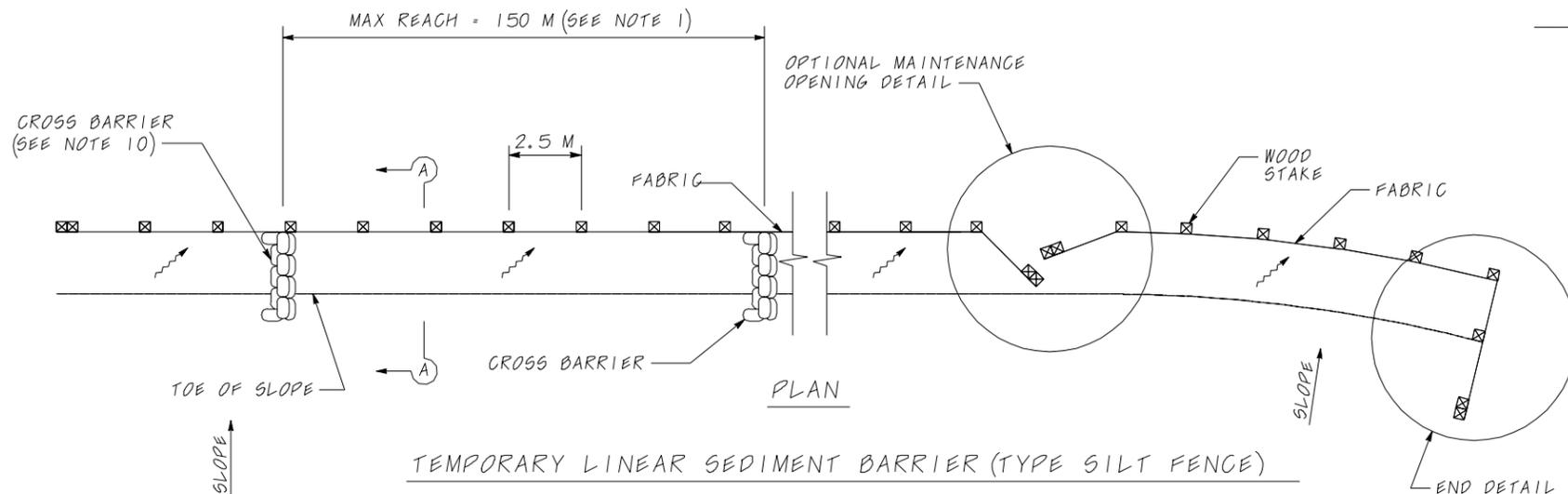
OPTIONAL MAINTENANCE OPENING DETAIL
(SEE NOTE 11)



CROSS BARRIER DETAIL



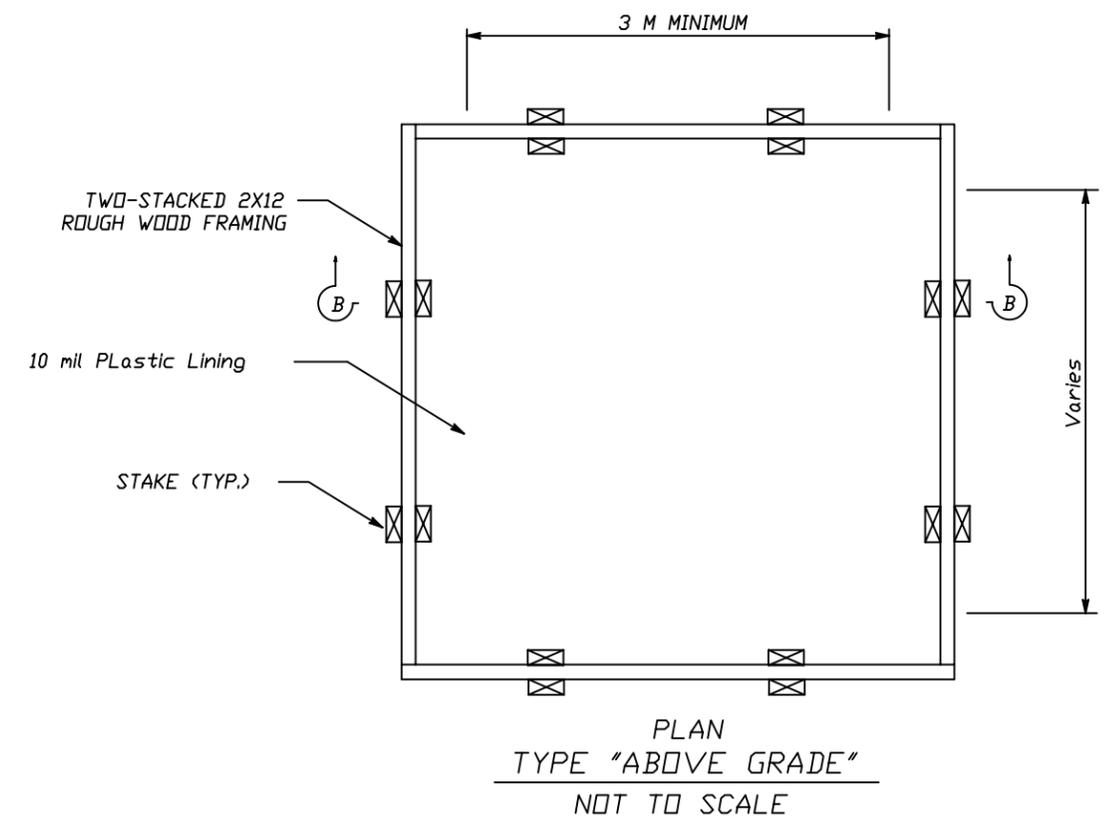
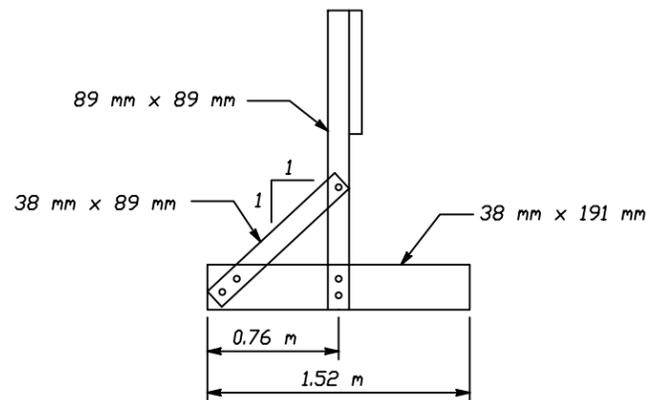
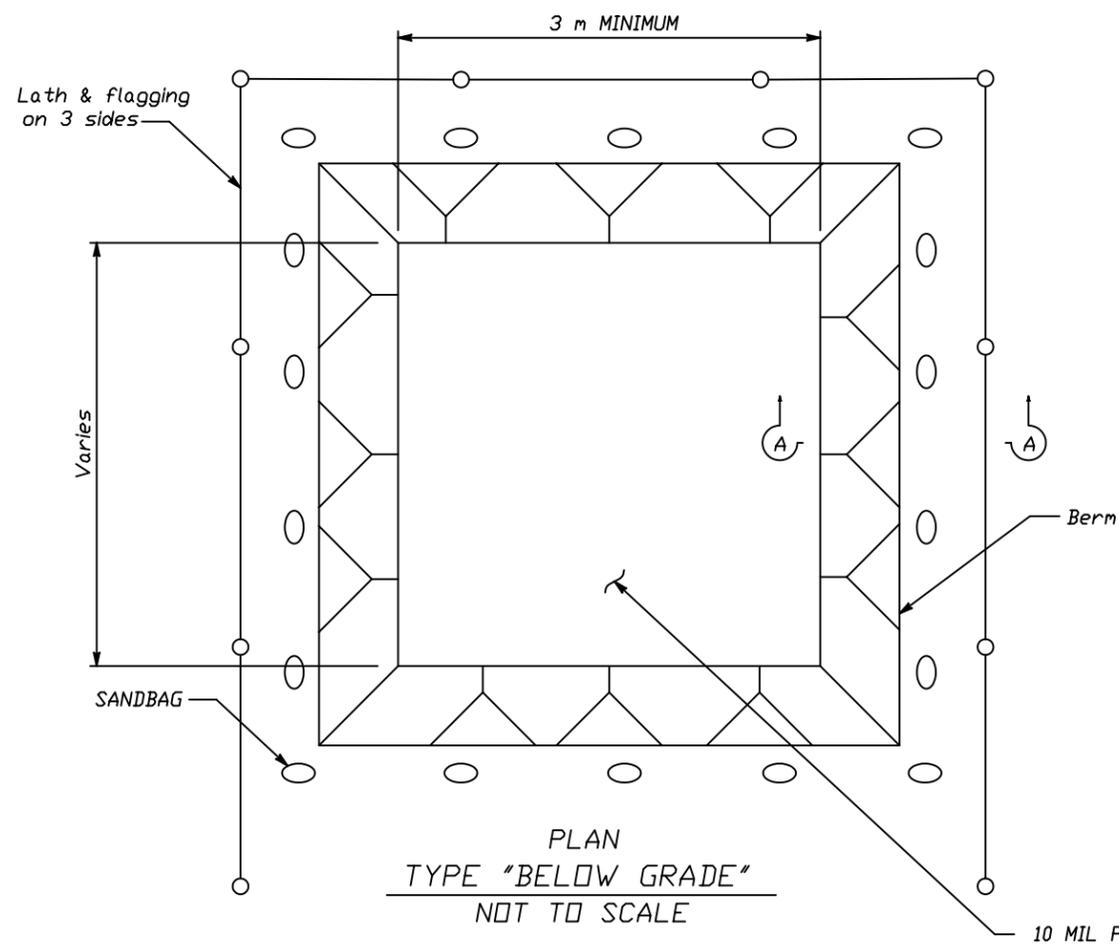
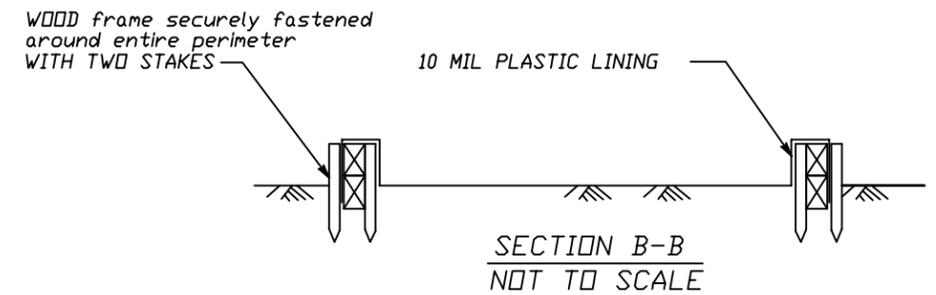
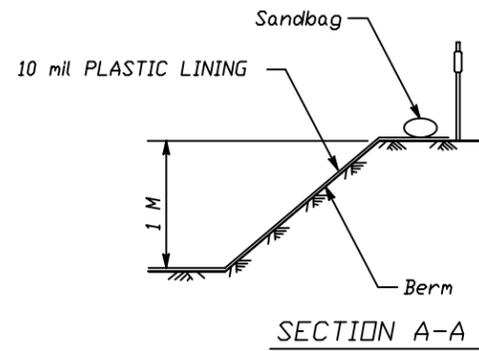
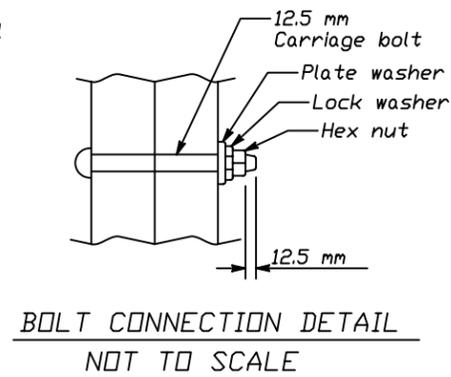
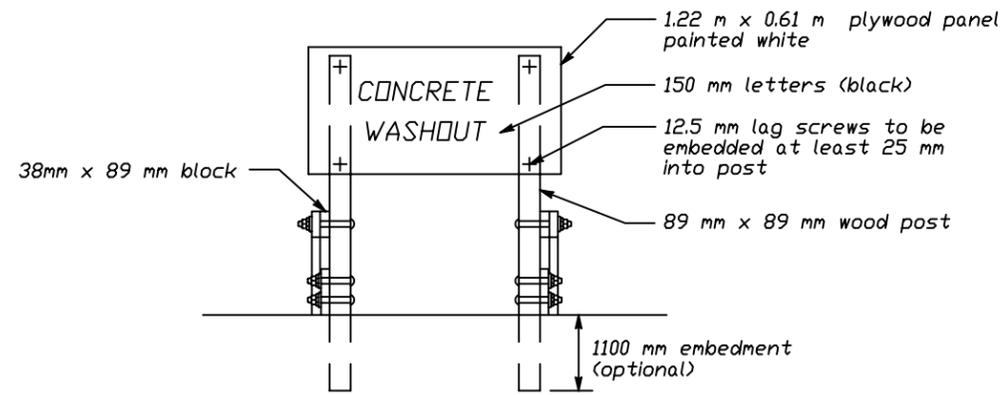
SECTION C-C



TEMPORARY LINEAR SEDIMENT BARRIER (TYPE SILT FENCE)

WPCD-13

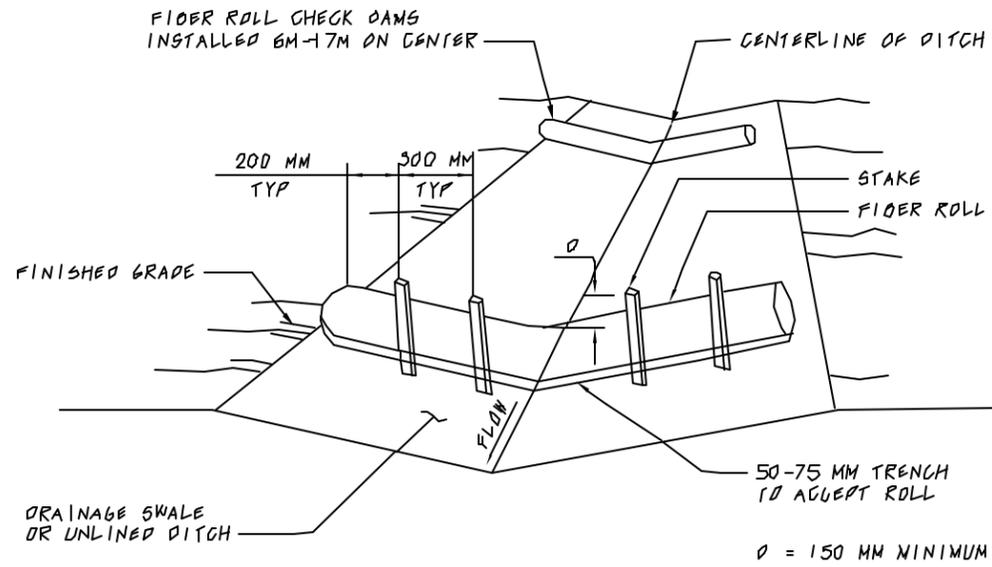
| | | | | | |
|--------------------------------|----------|--|-------|-------|------|
| ZZZ CONSTRUCTION COMPANY | | WATER POLLUTION CONTROL DRAWINGS SILT FENCE DETAILS | | | |
| DRAWN | D. J. D. | SIZE | A | SCALE | NONE |
| APPROVED | | DATE | 11/00 | REV | 0 |
| | | SHEET | 1 | OF | 1 |



NOTE:
 ACTUAL LAYOUT DETERMINED IN THE FIELD
 THE CONCRETE WASHOUT SIGN (SEE PAGE 6)
 BE INSTALLED WITHIN 10 M OF THE TEMPORARY
 CONCRETE WASHOUT FACILITY

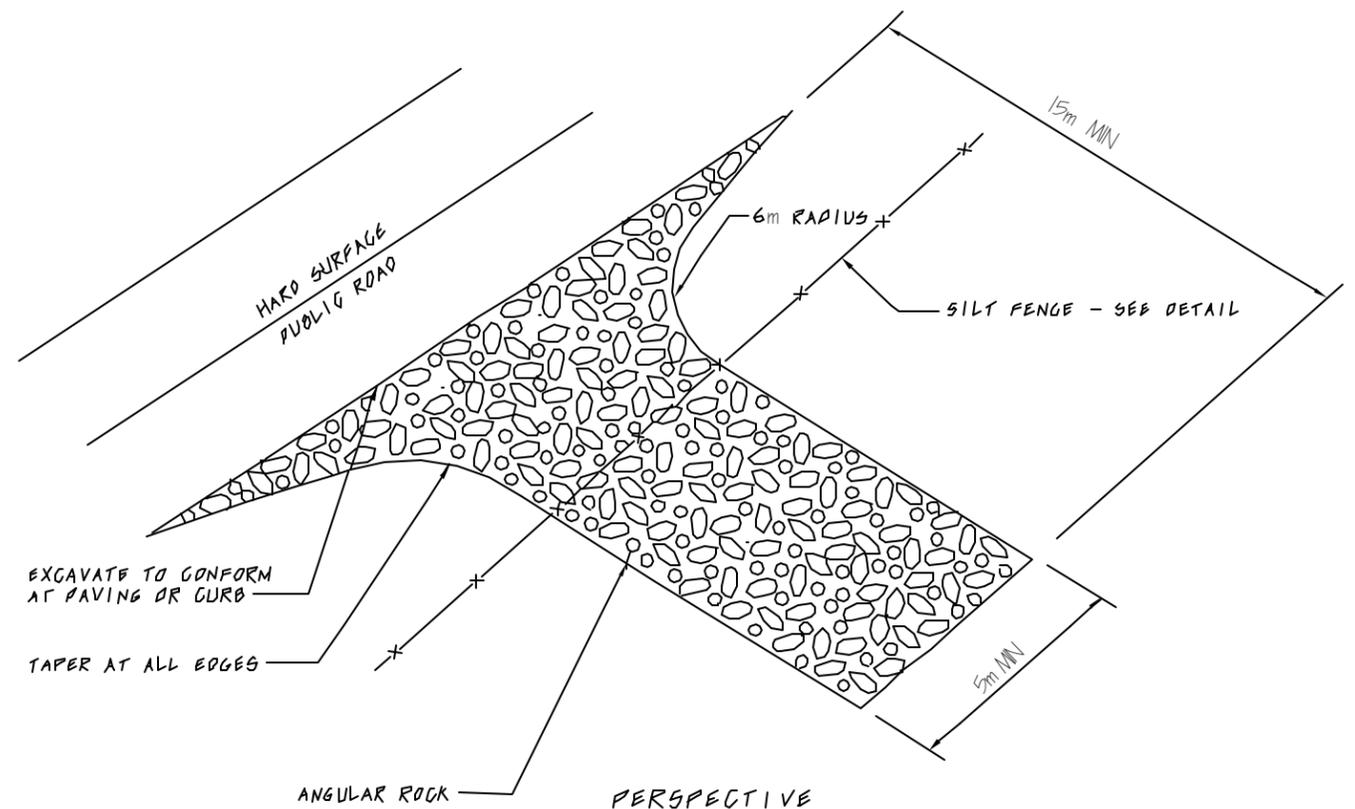
WPCD-14

| | | | | | |
|--------------------------------|----------|--|------------|--------------|-------|
| ZZZ CONSTRUCTION COMPANY | | WATER POLLUTION CONTROL DRAWINGS CONCRETE WASHOUT DETAILS | | | |
| DRAWN D.J.D. | APPROVED | SIZE A | SCALE NONE | DATE 11/00 | REV 0 |
| | | | | SHEET 1 OF 1 | |



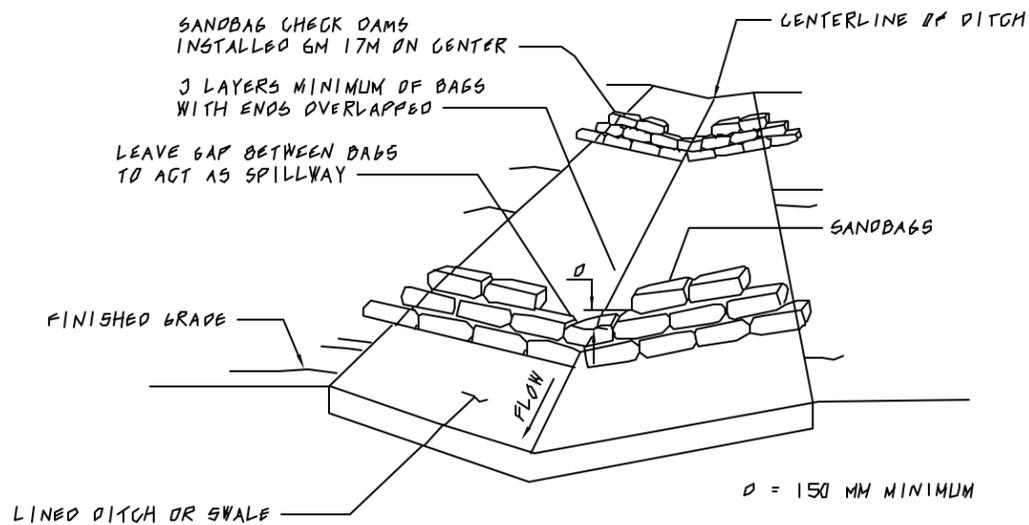
PERSPECTIVE

FIBER ROLL CHECK DAM IN UNLINED DITCH



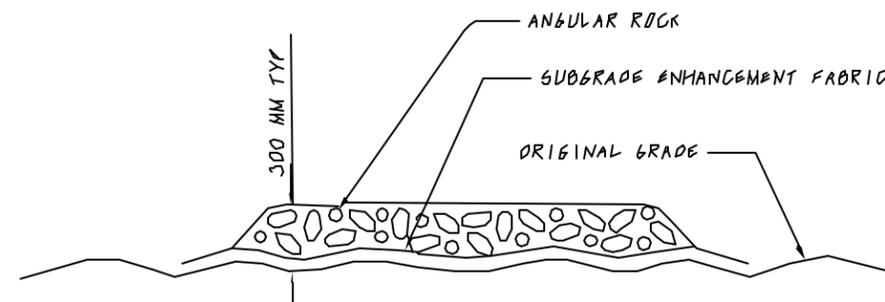
PERSPECTIVE

TEMPORARY CONSTRUCTION ENTRANCE/EXIT



PERSPECTIVE

SANDBAG CHECK DAM IN LINED DITCH



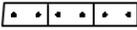
SECTION

TEMPORARY CONSTRUCTION ROAD

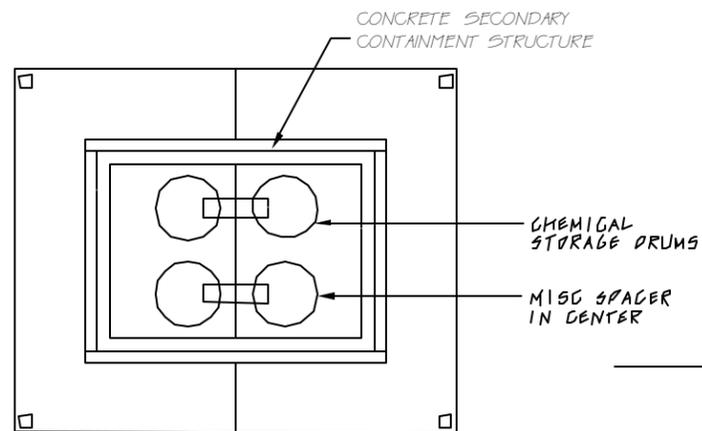
WPCD-15

| | | | | | |
|--------------------------------|--|--|---------------|---------------|----------|
| ZZZ CONSTRUCTION COMPANY | | WATER POLLUTION CONTROL DRAWINGS CONSTRUCTION DETAILS | | | |
| P. J. D. | | SIZE A | SCALE NONE | DATE 11/00 | REV 0 |
| | | SHEET 1 | OF 1 | | |

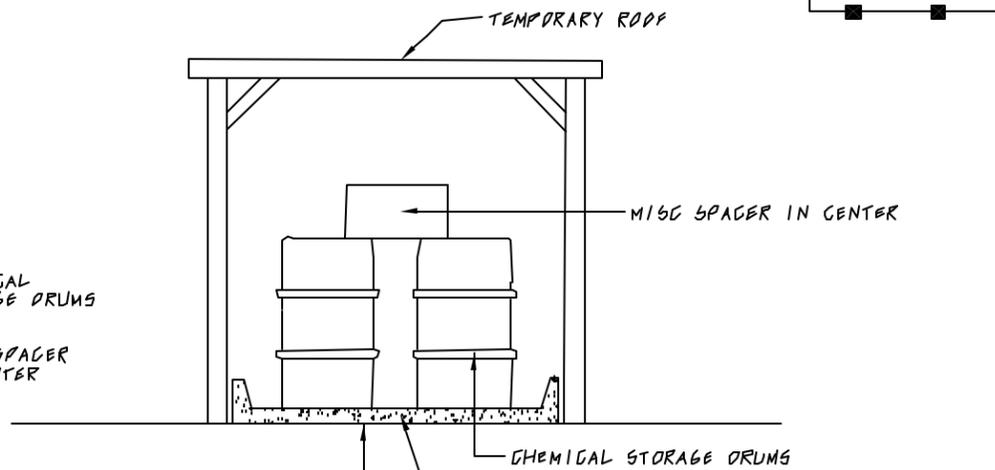
LEGEND

-  CONTRACTOR'S TRAILER
-  PORTABLE SANITARY FACILITY
CONSTRUCTED TO RESIST TIPPING
-  DUMPSTER
-  STRAW BALE BARRIER PER SG 9 OR
SANDBAG BARRIER PER SG 8
-  ABSORBENT MATERIAL
-  SUMP
-  SILT FENCE AROUND ENTIRE PERIMETER PER SG 1
-  STABILIZED CONSTRUCTION ENTRANCE/EXIT PER PG 1
-  STABILIZED CONSTRUCTION ROADWAY PER TC 2
-  CONCRETE PAD OR OTHER IMPERVIOUS
MATERIAL
-  FUELING TANK WITH SECONDARY
CONTAINMENT

IT IS BEST TO KEEP THE YARD AS FAR AWAY FROM ESA'S AS POSSIBLE

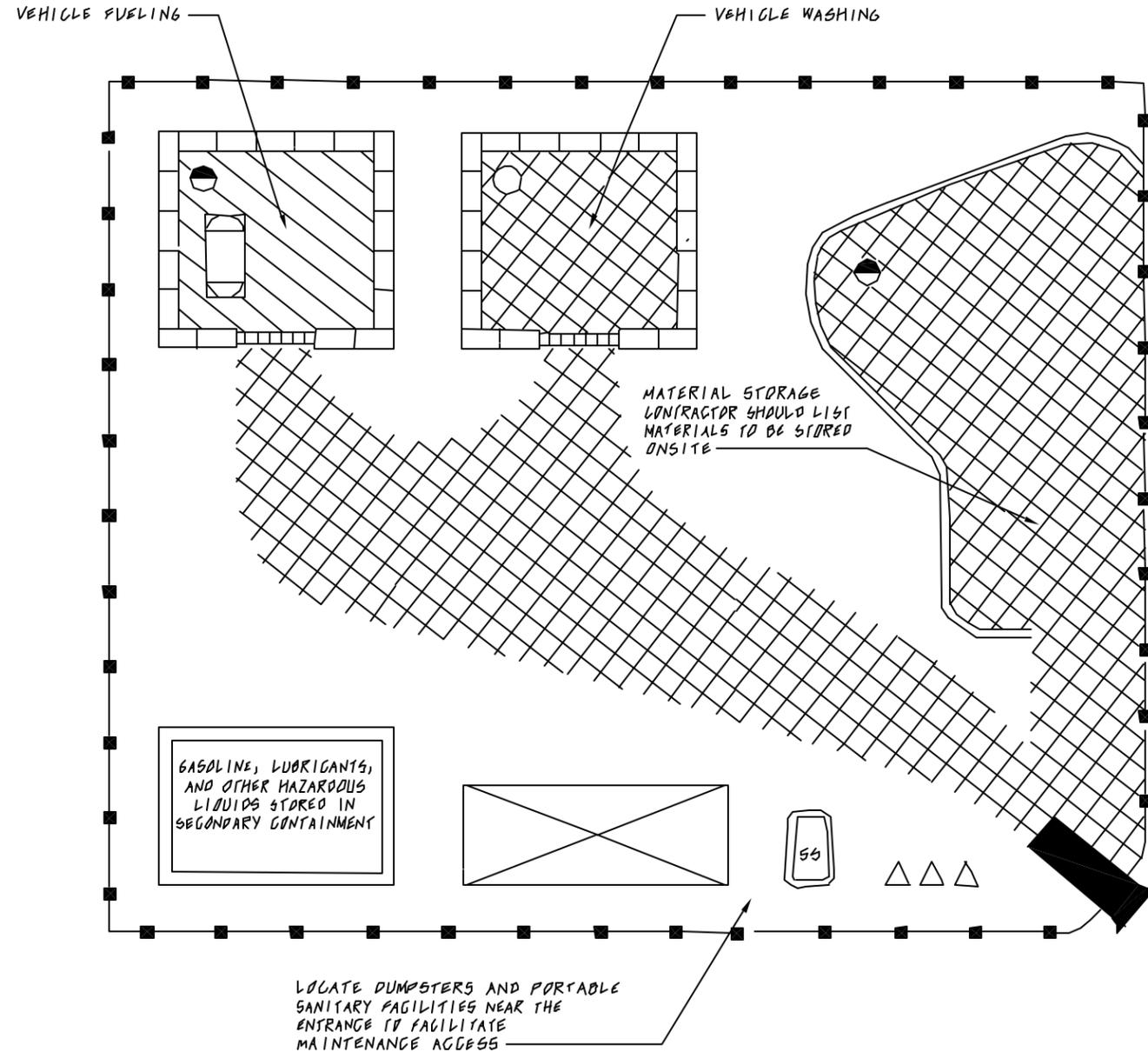


PLAN
CHEMICAL STORAGE



SECTION

CONCRETE SECONDARY CONTAINMENT STRUCTURE
SPILL CONTAINMENT VOLUME TO CONTAIN
PRECIPITATION FROM A 24-HOUR, 25-YEAR STORM EVENT
PLUS THE GREATER OF 10% OF THE AGGREGATE VOLUME
OF ALL CONTAINERS OR 100% OF THE CAPACITY OF THE
LARGEST CONTAINER WITHIN ITS BOUNDARY,
WHICHEVER IS GREATER.



SAMPLE CONTRACTOR'S CONSTRUCTION YARD

WPCD-16

| | | | | | |
|--------------------------------|--------|--|------------|-------|--------------|
| ZZZ CONSTRUCTION COMPANY | | WATER POLLUTION CONTROL DRAWINGS CONSTRUCTION DETAILS | | | |
| DRAWN D. J. D. | SIZE A | SCALE NONE | DATE 11/00 | REV 0 | SHEET 1 of 1 |
| APPROVED | | | | | |