CALIFORNIA HIGHWAY PATROL

CHP ACADEMY DRAINAGE CHANNEL IMPROVEMENTS

3500 REED AVENUE
WEST SACRAMENTO, CA 95605
COUNTY OF YOLO

PROJECT NUMBER: 000000000001324

ABBREVIATIONS AND LEGEND

Δ	DELTA ANGLE
AC	ASPHALT CONCRETE
APCD	AIR POLLUTION CONTROL DISTRICT
APPROX.	APPROXIMATELY
AQMD	AIR QUALITY MANAGEMENT DISTRICT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BLDG	BUILDING
BMP'S	BEST MANAGEMENT PRACTICES
BP	ALIGNMENT BEGINNING
CARB	CALIFORNIA AIR RESOURCES BOARD
CBC	CALIFORNIA BUILDING CODE
CFC	CALIFORNIA FIRE CODE
CL	CENTER LINE
CLR	CLEAR
CONC	CONCRETE
CONT	CONTINUOUS
CP	CONTROL POINT
DIA	DIAMETER
DWG	DRAWING
E	EASTING OR EAST
(E)	EXISTING
ELEV	ELEVATION
EP	ALIGNMENT END
FG	FINISH GRADE
FL	FLOW LINE
L	LENGTH
LF	LINEAR FEET
MAX	MAXIMUM
Mid	MID ORDINATE
MIN	MINIMUM
MG	MATCH GRADE
MH	MANHOLE
N	NORTHING OR NORT
(N)	NEW
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTERS
PC	POINT OF CURVATURE
PCC	COMPOUND CURVE INTERSECTION
PL	PROPERTY LINE
PT	POINT OF TANGENCY
R	RADIUS
REF	REFERENCE
S	SOUTH
SD	STORM DRAIN
SPEC	SPECIFIED
SPECS	SPECIFICATIONS
SWPPP	STORM WATER POLLUTION PREVENTION PLAN
TC	TOP OF CONCRETE
TYP	TYPICAL
V	VALLEY
W	WEST

KEYNOTE WITH NUMBER — 1 / C2.1 — DETAIL NUMBER / SHEET NUMBER

SECTION NOTE WITH NUMBER — 1A / C2.1 — DETAIL NUMBER/ SECTION LETTER / SHEET NUMBER

GENERAL NOTES:

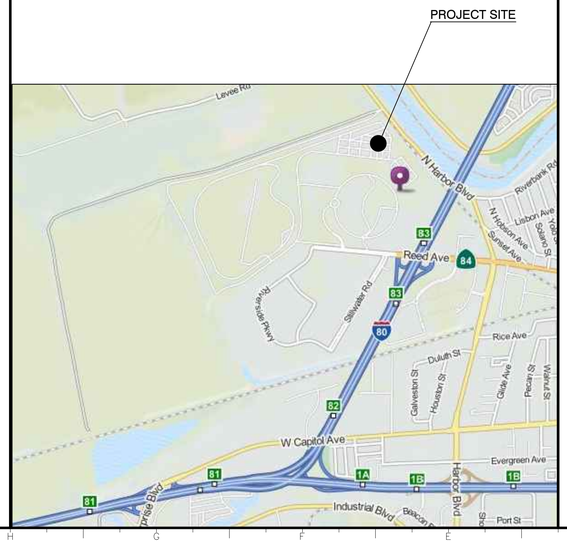
1. THE ACADEMY IS A SECURED TRAINING FACILITY. ALL WORK SHALL BE SCHEDULED WITH ACADEMY STAFF. NORMAL WORK HOURS SHALL BE MONDAY THROUGH FRIDAY 8:00AM TO 5:00PM; WORK AFTER HOURS OR ON SATURDAYS, SUNDAYS, AND HOLIDAYS IS SUBJECT TO AUTHORIZATION BY THE STATE.
2. CONTRACTOR SHALL PROVIDE ALTERNATE MEANS OF ENTRY INTO CANINE FACILITY DURING TRENCH DRAIN CONSTRUCTION. THIS SHALL INCLUDE, BUT NOT LIMITED TO, PROVIDING A TEMPORARY ACCESS ROAD.
3. ONE SET OF APPROVED PLANS AND SPECIFICATIONS SHALL BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES.
4. STATE APPROVAL OF THESE PLANS DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM APPLICABLE REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING ALL CONCERNS INCLUDING, BUT NOT LIMITED TO, CONFLICTS, ERRORS AND OMISSIONS TO THE STATE IMMEDIATELY UPON DISCOVERY. IF SO DIRECTED BY THE STATE, THE CONTRACTOR SHALL STOP WORK UNTIL CONCERNS HAVE BEEN MITIGATED. COSTS INCURRED RESULTING FROM THE CONTRACTOR'S FAILURE TO STOP WORK AS DIRECTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. CONTRACTOR IS RESPONSIBLE FOR SECURING HIS/HER WORK AREAS FROM THEFT OR VANDALISM.
6. THE CONTRACTOR IS RESPONSIBLE FOR SITE CONDITIONS INCLUDING PUBLIC SAFETY, DUST CONTROL, AND EROSION AND SEDIMENT CONTROL CONTINUALLY DURING THE CONTRACT PERIOD.
7. CONTRACTOR SHALL PROTECT EXISTING DRAINAGE IMPROVEMENTS DURING CONTRACT PERIOD AND REMOVE ALL CONSTRUCTION DEBRIS PRIOR TO FINAL INSPECTION.
8. CONTRACTOR TO PROTECT EXISTING UTILITIES AND IMPROVEMENTS DURING CONSTRUCTION. REPAIR AND RESTORE DAMAGES CAUSED BY CONSTRUCTION BACK TO ORIGINAL CONDITIONS AND TO STATES SATISFACTION.
9. CONTRACTOR SHALL KEEP THE PREMISES FREE FROM WASTE MATERIALS OR RUBBISH ACCUMULATED BY HIS/HER WORK AT ALL TIMES. REMOVE ALL RUBBISH, TOOLS, SURPLUS MATERIALS AND LEAVE THE JOB IN BROOM CLEAN CONDITION UPON COMPLETION OF THE PROJECT.
10. DISCONNECTION/CONNECTION AND ACTIVATION OF UTILITIES INTO THE FACILITY SHALL BE COORDINATED WITH THE STATE.
11. CONSTRUCTION NOISE SHALL BE IN COMPLIANCE WITH THE LOCAL CITY/COUNTY ORDINACES. CONSULT THE LOCAL CITY/COUNTY FOR SPECIFIC RESTRICTIONS AND HOURS OF OPERATION.
12. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS.

BUILDING CODE INFORMATION

STATE CODES

2016 BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24, PART 1, CALIFORNIA CODE OF REGULATIONS (CCR), CBSC
2016 CALIFORNIA BUILDING CODE (CBC), TITLE 24, PART 2, CCR, CBSC (2012 IBC & CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24, PART 3, CBSC (2011 NATIONAL ELECTRICAL CODE & CALIFORNIA AMENDMENTS)
2016 CALIFORNIA MECHANICAL CODE (CMC), TITLE 24, PART 4, CBSC (2012 UNIFORM MECHANICAL CODE & CALIFORNIA AMENDMENTS)
2016 CALIFORNIA PLUMBING CODE (CPC), TITLE 24, PART 5, CBSC (2012 UNIFORM PLUMBING CODE & CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ENERGY CODE, TITLE 24, PART 6, CCR, CBSC
2016 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24, PART 8, CBSC
2016 CALIFORNIA FIRE CODE (CFC), TITLE 24, PART 9, CHAPTER 22, CCR, CBSC (2012 INTERNATIONAL FIRE CODE & CALIFORNIA AMENDMENTS)
2016 CALIFORNIA GREEN BUILDING STANDARDS, TITLE 24, PART 11
2016 CALIFORNIA REFERENCED STANDARDS, TITLE 24, PART 12, CBSC
2012 NATIONAL FIRE PROTECTION ASSOCIATION, VOL. 3, SECTION 30, 30A & 30B
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS ALL OTHER APPLICABLE CODES AND REGULATIONS, SEE SPECIFICATIONS FOR DETAILS

PROJECT LOCATION



PROJECT TEAM

PROJECT DIRECTOR: TRAVIS THRASHER
CIVIL: SCOTT MCDONELL

PROJECT SCOPE

1. SITE SWPPP.
2. DEMOLITION.
3. GRADING AND EXCAVATION.
4. STORM DRAINAGE.BOX CULVERT
5. CONCRETE PAVING.
6. ASPHALT PAVING.
7. GRAVEL PAVING W/CONCRETE HEADER
8. CONCRETE V-GUTTER.
9. CONCRETE TRENCH DRAIN
10. ROCK RIP RAP
11. PEDESTRIAN BRIDGE W/ABUTMENTS AND MINOR DG WALKWAY
12. HYDROSEEDING
13. CLEAN AND RETURN WORK AREAS TO ORIGINAL WORKING CONDITION.

PROJECT SHEETS

GENERAL

T1.1 TITLE SHEET: ABBREVIATIONS AND LEGEND, SCOPE OF WORK, GENERAL NOTES, BUILDING CODE INFORMATION, SHEET INDEX, AND LOCATION MAP.

CIVIL

C021	EXISTING CONDITION & DEMOLITION PLAN
C101	SITE PLAN OVERALL
C102	SITE PLAN AREA A
C103	SITE PLAN AREA B
C104	SITE PLAN AREA C
C105	SITE PLAN AREA D
C111	CHANNEL PLAN OVERALL
C112	CHANNEL PLAN & PROFILE AREA A
C113	CHANNEL PLAN & PROFILE AREA B
C114	CHANNEL PLAN & PROFILE AREA C
C115	CHANNEL PLAN & PROFILE AREA D
C121	CHANNEL SECTIONS
C301	GRADING PLAN OVERALL
C302	GRADING PLAN ENLARGED AREAS
C501	MISCELLANEOUS SECTIONS & SITE DETAILS
C502	BRIDGE DETAILS

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Permit No.: XX-X-XXXX-X

Reviewed by: _____

Date : _____

DGS GENERAL SERVICES

Department of General Services
Architecture & Engineering Sections
State of California
Real Estate Services Division
Project Management & Development Branch
707 Third Street, Suite 4-105
West Sacramento, California 95605
Project Manager: Travis Thrasher
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Travis.Thrasher@dgs.ca.gov

REGISTERED PROFESSIONAL ENGINEER — Scott C. McDonell — PROGRESS SET NOT FOR CONSTRUCTION — CIVIL — STATE OF CALIFORNIA

Issue		
No.	Date	Description
1	3/29/19	25% WDs
2	7/10/19	75% WDs

Project
CHP- ACADEMY DRAINAGE CHANNEL IMPROVEMENTS
3500 REED AVENUE
WEST SACRAMENTO, CA 95605
YOLO COUNTY
CALIFORNIA HIGHWAY PATROL

Supervisor	Designed	Drawn
E.VELAGIC	S.MCDONELL	S.MCDONELL

DSA App No.
0#-######

Sheet Title
COVER SHEET

Project Number
000000000001324

Reference North

Sheet Scale
AS NOTED

Sheet Number
G001

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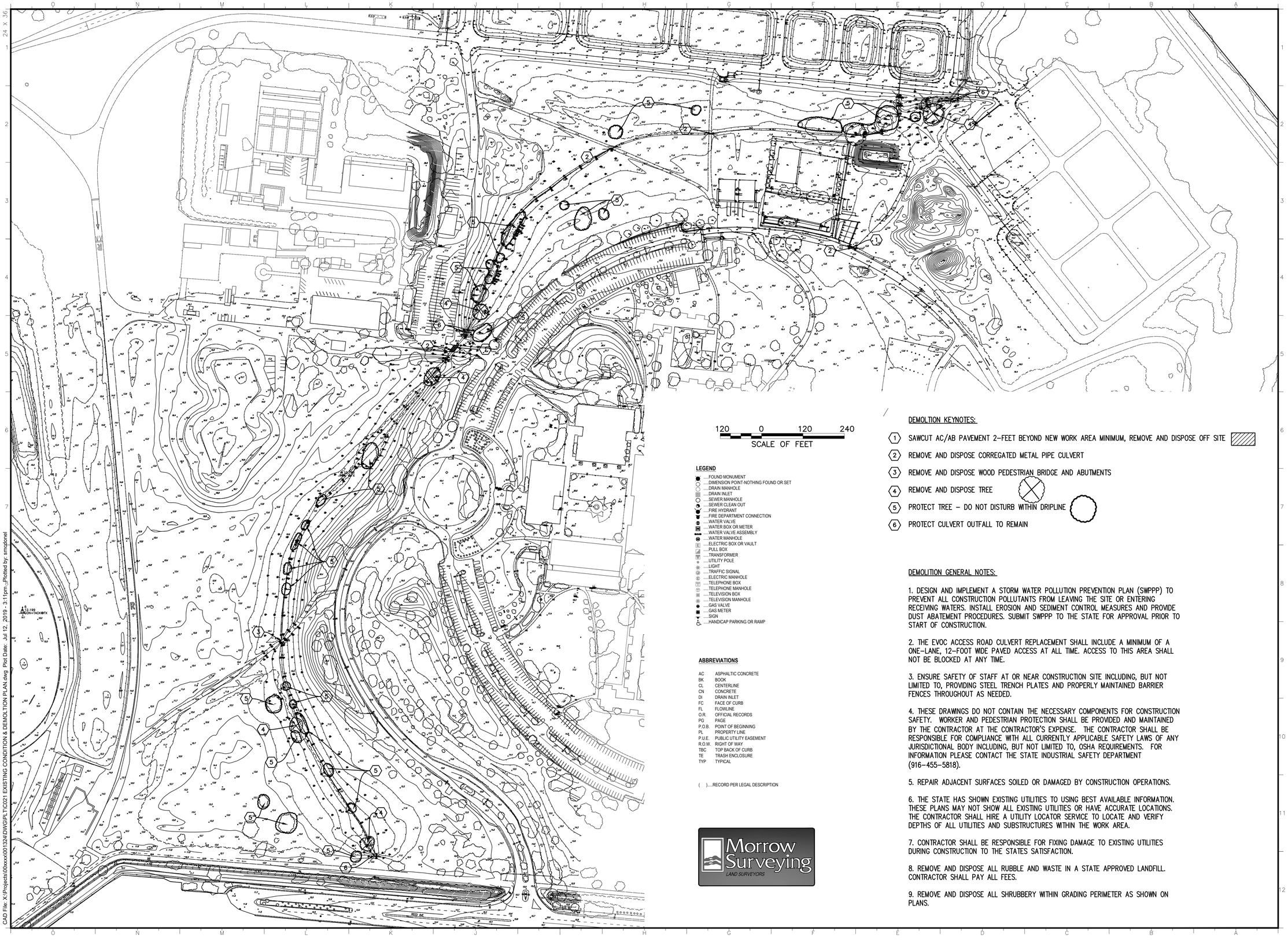
CAD File: X:\Projects\00xxxx\001324\DWG\PLT\G001.dwg Plot Date: Jul 12, 2019 - 3:08pm Plotted by: smcdonel



120 0 120 240
SCALE OF FEET

LEGEND

- ....FOUND MONUMENT
- ....DIMENSION POINT-NOTHING FOUND OR SET
- ....DRAIN MANHOLE
- ....DRAIN INLET
- ....SEWER MANHOLE
- ....SEWER CLEAN OUT
- ....FIRE HYDRANT
- ....FIRE DEPARTMENT CONNECTION
- ....WATER VALVE
- ....WATER BOX OR METER
- ....WATER VALVE ASSEMBLY
- ....WATER MANHOLE
- ....ELECTRIC BOX OR VAULT
- ....PULL BOX
- ....TRANSFORMER
- ....UTILITY POLE
- ....LIGHT
- ....TRAFFIC SIGNAL
- ....ELECTRIC MANHOLE
- ....TELEPHONE BOX
- ....TELEPHONE MANHOLE
- ....TELEVISION BOX
- ....TELEVISION MANHOLE
- ....GAS VALVE
- ....GAS METER
- ....SIGN
- ....HANDICAP PARKING OR RAMP

ABBREVIATIONS

AC	ASPHALTIC CONCRETE
BK	BOOK
CL	CENTERLINE
CN	CONCRETE
DI	DRAIN INLET
FC	FACE OF CURB
FL	FLOWLINE
O.R.	OFFICIAL RECORDS
PG	PAGE
P.O.B.	POINT OF BEGINNING
PL	PROPERTY LINE
P.U.E.	PUBLIC UTILITY EASEMENT
R.O.W.	RIGHT OF WAY
TBC	TOP BACK OF CURB
TE	TRASH ENCLOSURE
TYP	TYPICAL

( )....RECORD PER LEGAL DESCRIPTION

Morrow Surveying
LAND SURVEYORS

DEMOLITION KEYNOTES:

1. SAWCUT AC/AB PAVEMENT 2-FEET BEYOND NEW WORK AREA MINIMUM, REMOVE AND DISPOSE OFF SITE
2. REMOVE AND DISPOSE CORREGATED METAL PIPE CULVERT
3. REMOVE AND DISPOSE WOOD PEDESTRIAN BRIDGE AND ABUTMENTS
4. REMOVE AND DISPOSE TREE
5. PROTECT TREE – DO NOT DISTURB WITHIN DRIPLINE
6. PROTECT CULVERT OUTFALL TO REMAIN

DEMOLITION GENERAL NOTES:

1. DESIGN AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) TO PREVENT ALL CONSTRUCTION POLLUTANTS FROM LEAVING THE SITE OR ENTERING RECEIVING WATERS. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AND PROVIDE DUST ABATEMENT PROCEDURES. SUBMIT SWPPP TO THE STATE FOR APPROVAL PRIOR TO START OF CONSTRUCTION.

2. THE EVOC ACCESS ROAD CULVERT REPLACEMENT SHALL INCLUDE A MINIMUM OF A ONE-LANE, 12-FOOT WIDE PAVED ACCESS AT ALL TIME. ACCESS TO THIS AREA SHALL NOT BE BLOCKED AT ANY TIME.

3. ENSURE SAFETY OF STAFF AT OR NEAR CONSTRUCTION SITE INCLUDING, BUT NOT LIMITED TO, PROVIDING STEEL TRENCH PLATES AND PROPERLY MAINTAINED BARRIER FENCES THROUGHOUT AS NEEDED.

4. THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. WORKER AND PEDESTRIAN PROTECTION SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL CURRENTLY APPLICABLE SAFETY LAWS OF ANY JURISDICTIONAL BODY INCLUDING, BUT NOT LIMITED TO, OSHA REQUIREMENTS. FOR INFORMATION PLEASE CONTACT THE STATE INDUSTRIAL SAFETY DEPARTMENT (916-455-5818).

5. REPAIR ADJACENT SURFACES SOILED OR DAMAGED BY CONSTRUCTION OPERATIONS.

6. THE STATE HAS SHOWN EXISTING UTILITIES TO USING BEST AVAILABLE INFORMATION. THESE PLANS MAY NOT SHOW ALL EXISTING UTILITIES OR HAVE ACCURATE LOCATIONS. THE CONTRACTOR SHALL HIRE A UTILITY LOCATOR SERVICE TO LOCATE AND VERIFY DEPTHS OF ALL UTILITIES AND SUBSTRUCTURES WITHIN THE WORK AREA.

7. CONTRACTOR SHALL BE RESPONSIBLE FOR FIXING DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION TO THE STATES SATISFACTION.

8. REMOVE AND DISPOSE ALL RUBBLE AND WASTE IN A STATE APPROVED LANDFILL. CONTRACTOR SHALL PAY ALL FEES.

9. REMOVE AND DISPOSE ALL SHRUBBERY WITHIN GRADING PERIMETER AS SHOWN ON PLANS.

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

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Permit No.: XX-X-XXXX-X

Reviewed by: _____

Date : _____

DGS GENERAL SERVICES

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State of California
Real Estate Services Division
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707 Third Street, Suite 4-105
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REGISTERED PROFESSIONAL ENGINEER
SCOTT C. SMITH
No. 76182
CIVIL
STATE OF CALIFORNIA
PROGRESS SET
NOT FOR CONSTRUCTION

Issue		
No.	Date	Description
1	3/29/19	25% WDs
2	7/10/19	75% WDs

Project
CHP- ACADEMY DRAINAGE CHANNEL IMPROVEMENTS

3500 REED AVENUE
WEST SACRAMENTO, CA 95605
YOLO COUNTY

CALIFORNIA HIGHWAY PATROL

Supervisor	Designed	Drawn
E. VELAGIC	S. MCDONELL	S. MCDONELL

DSA App No.
0#-######

Sheet Title
EXISTING CONDITION DEMOLITION PLAN

Project Number
00000000001324

Reference North

Sheet Scale
1" = 120'-0"

Sheet Number
C021

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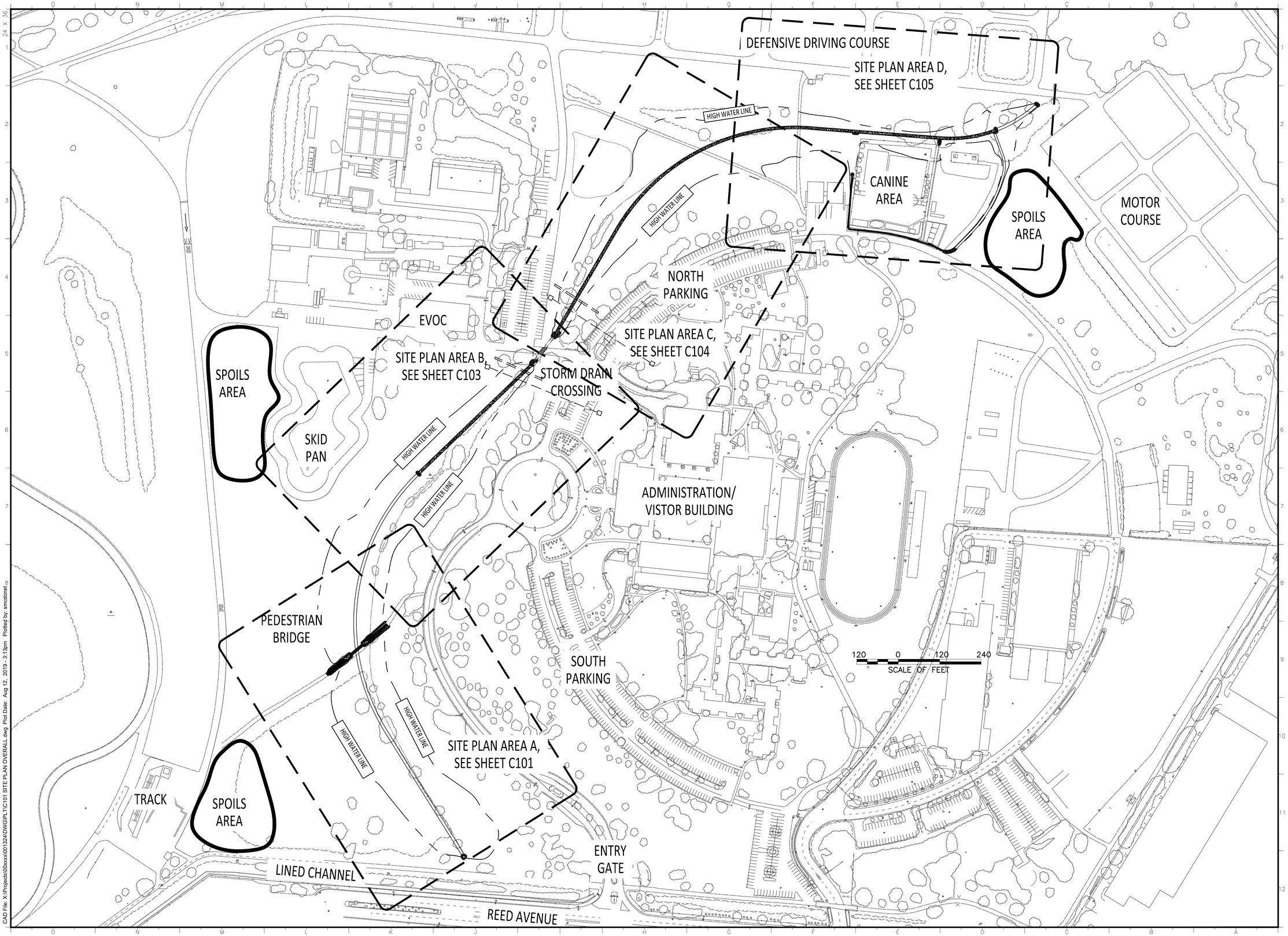
CAD File: X:\Projects\00xxxx\001324\DWG\PLT\C021 EXISTING CONDITION & DEMOLITION PLAN.dwg Plot Date: Jul 12, 2019 - 3:11pm...Plotted by: smcdonel



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Project Manager: Travis Thrasher
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REGISTERED PROFESSIONAL ENGINEER Scott C. McDonell No. 19xxx CIVIL STATE OF CALIFORNIA
PROGRESS SET NOT FOR CONSTRUCTION

Issue

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1	3/29/19	25% WDs
2	7/10/19	75% WDs

Project
CHP- ACADEMY DRAINAGE CHANNEL IMPROVEMENTS

3500 REED AVENUE
WEST SACRAMENTO, CA 95605
YOLO COUNTY

CALIFORNIA HIGHWAY PATROL

Supervisor	Designed	Drawn
E. VELAGIC	S. MCDONELL	S. MCDONELL

DSA App No.
0#-######

Sheet Title
SITE PLAN OVERALL

Project Number
00000000001324

Reference North

Sheet Scale
1" = 120'-0"

Sheet Number
C101

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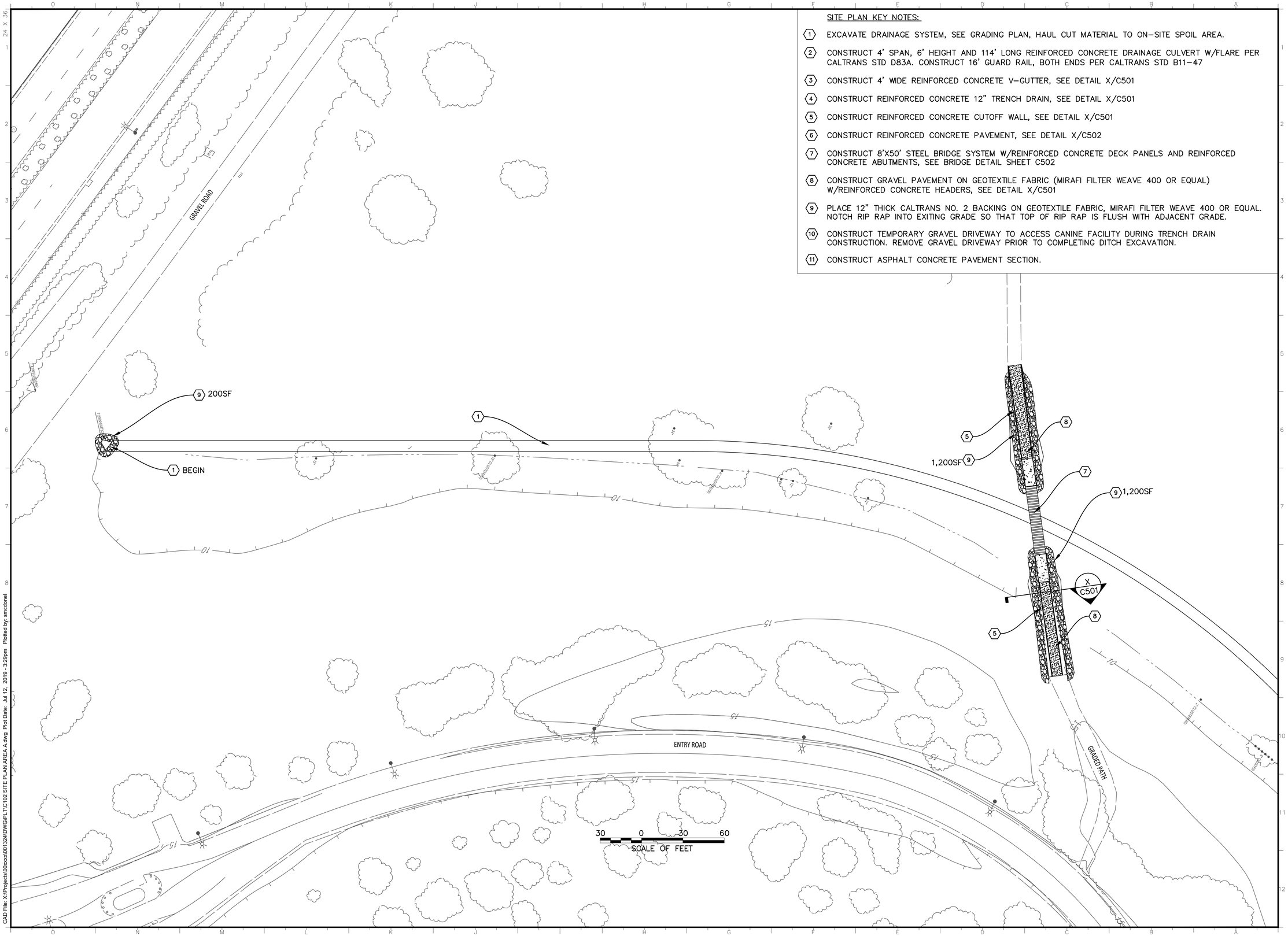
CAD File: X:\Projects\00xxxx\00132\4DWG\PLTC101 SITE PLAN OVERALL.dwg Plot Date: Aug 12, 2019 - 3:13pm Plotted by: smcdonel

SITE PLAN KEY NOTES:

1. EXCAVATE DRAINAGE SYSTEM, SEE GRADING PLAN, HAUL CUT MATERIAL TO ON-SITE SPOIL AREA.
2. CONSTRUCT 4' SPAN, 6' HEIGHT AND 114' LONG REINFORCED CONCRETE DRAINAGE CULVERT W/FLARE PER CALTRANS STD D83A. CONSTRUCT 16' GUARD RAIL, BOTH ENDS PER CALTRANS STD B11-47
3. CONSTRUCT 4' WIDE REINFORCED CONCRETE V-GUTTER, SEE DETAIL X/C501
4. CONSTRUCT REINFORCED CONCRETE 12" TRENCH DRAIN, SEE DETAIL X/C501
5. CONSTRUCT REINFORCED CONCRETE CUTOFF WALL, SEE DETAIL X/C501
6. CONSTRUCT REINFORCED CONCRETE PAVEMENT, SEE DETAIL X/C502
7. CONSTRUCT 8'X50' STEEL BRIDGE SYSTEM W/REINFORCED CONCRETE DECK PANELS AND REINFORCED CONCRETE ABUTMENTS, SEE BRIDGE DETAIL SHEET C502
8. CONSTRUCT GRAVEL PAVEMENT ON GEOTEXTILE FABRIC (MIRAFI FILTER WEAVE 400 OR EQUAL) W/REINFORCED CONCRETE HEADERS, SEE DETAIL X/C501
9. PLACE 12" THICK CALTRANS NO. 2 BACKING ON GEOTEXTILE FABRIC, MIRAFI FILTER WEAVE 400 OR EQUAL. NOTCH RIP RAP INTO EXITING GRADE SO THAT TOP OF RIP RAP IS FLUSH WITH ADJACENT GRADE.
10. CONSTRUCT TEMPORARY GRAVEL DRIVEWAY TO ACCESS CANINE FACILITY DURING TRENCH DRAIN CONSTRUCTION. REMOVE GRAVEL DRIVEWAY PRIOR TO COMPLETING DITCH EXCAVATION.
11. CONSTRUCT ASPHALT CONCRETE PAVEMENT SECTION.



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Date : _____

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REGISTERED PROFESSIONAL ENGINEER Scott C. McDonell No. 79751 CIVIL STATE OF CALIFORNIA — PROGRESS SET NOT FOR CONSTRUCTION

Issue		
No.	Date	Description
1	3/29/19	25% WDs
2	7/10/19	75% WDs

Project
CHP- ACADEMY DRAINAGE CHANNEL IMPROVEMENTS

3500 REED AVENUE
WEST SACRAMENTO, CA 95605
YOLO COUNTY

CALIFORNIA HIGHWAY PATROL

Supervisor	Designed	Drawn
E.VELAGIC	S.MCDONELL	S.MCDONELL

DSA App No.
0#-######

Sheet Title
SITE PLAN
AREA A

Project Number
00000000001324

Reference North

Sheet Scale
1"=30'

Sheet Number
C102

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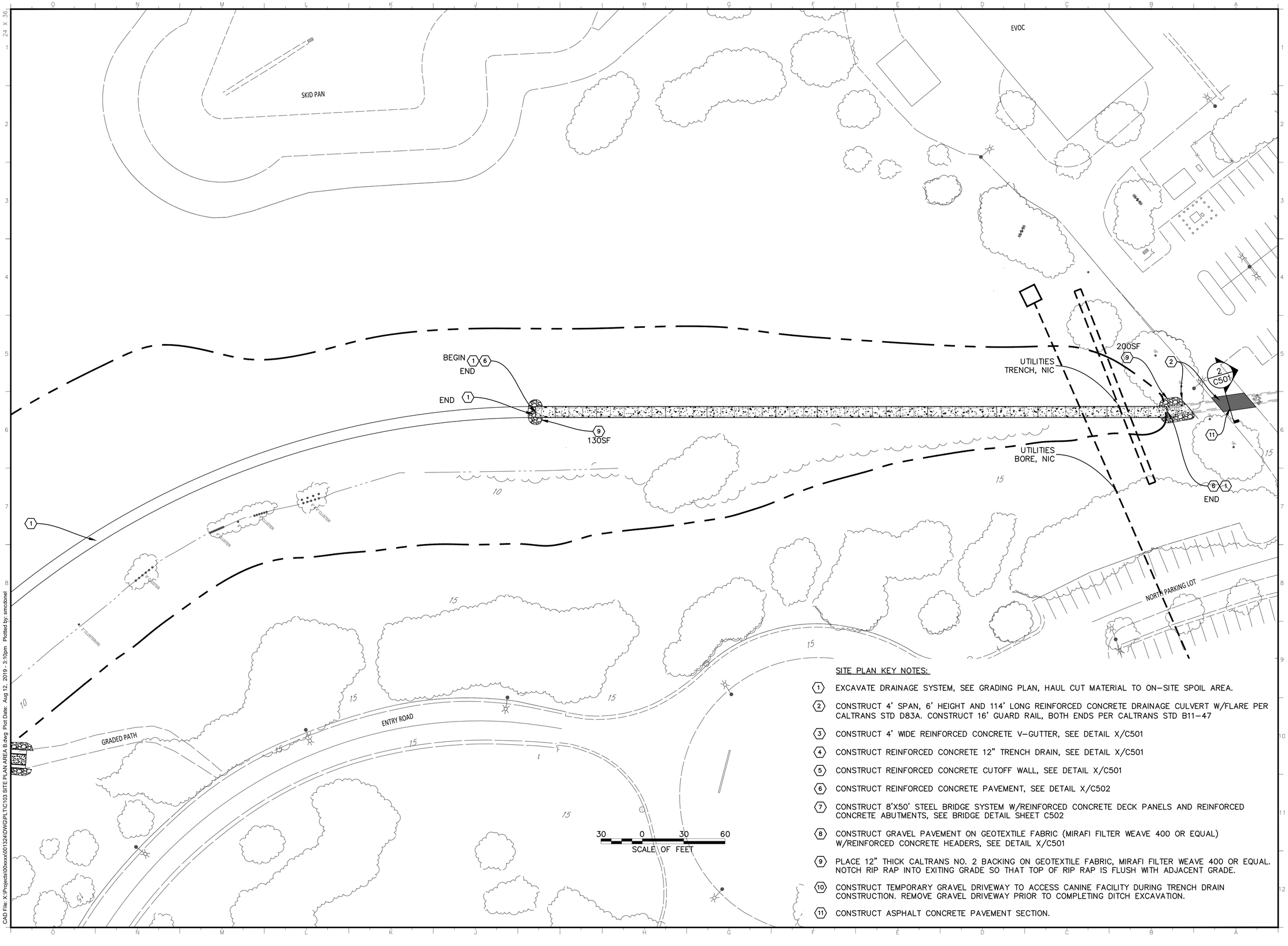
CAD File: X:\Projects\00xxxx\001324\DWG\PLT\C102 SITE PLAN AREA A.dwg Plot Date: Jul 12, 2019 - 3:29pm Plotted by: smcdonel



SITE PLAN KEY NOTES:

1. EXCAVATE DRAINAGE SYSTEM, SEE GRADING PLAN, HAUL CUT MATERIAL TO ON-SITE SPOIL AREA.
2. CONSTRUCT 4' SPAN, 6' HEIGHT AND 114' LONG REINFORCED CONCRETE DRAINAGE CULVERT W/FLARE PER CALTRANS STD D83A. CONSTRUCT 16' GUARD RAIL, BOTH ENDS PER CALTRANS STD B11-47
3. CONSTRUCT 4' WIDE REINFORCED CONCRETE V-GUTTER, SEE DETAIL X/C501
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11. CONSTRUCT ASPHALT CONCRETE PAVEMENT SECTION.

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Project Manager: Travis Thrasher
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REGISTERED PROFESSIONAL ENGINEER
Scott C. McDonell
No. 76112
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PROGRESS SET
NOT FOR CONSTRUCTION

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YOLO COUNTY

CALIFORNIA HIGHWAY PATROL

Supervisor	Designed	Drawn
E.VELAGIC	S.MCDONELL	S.MCDONELL

DSA App No.
0#-######

Sheet Title
SITE PLAN
AREA B

Project Number
000000000001324

Reference North

Sheet Scale
1"=30'

Sheet Number
C103

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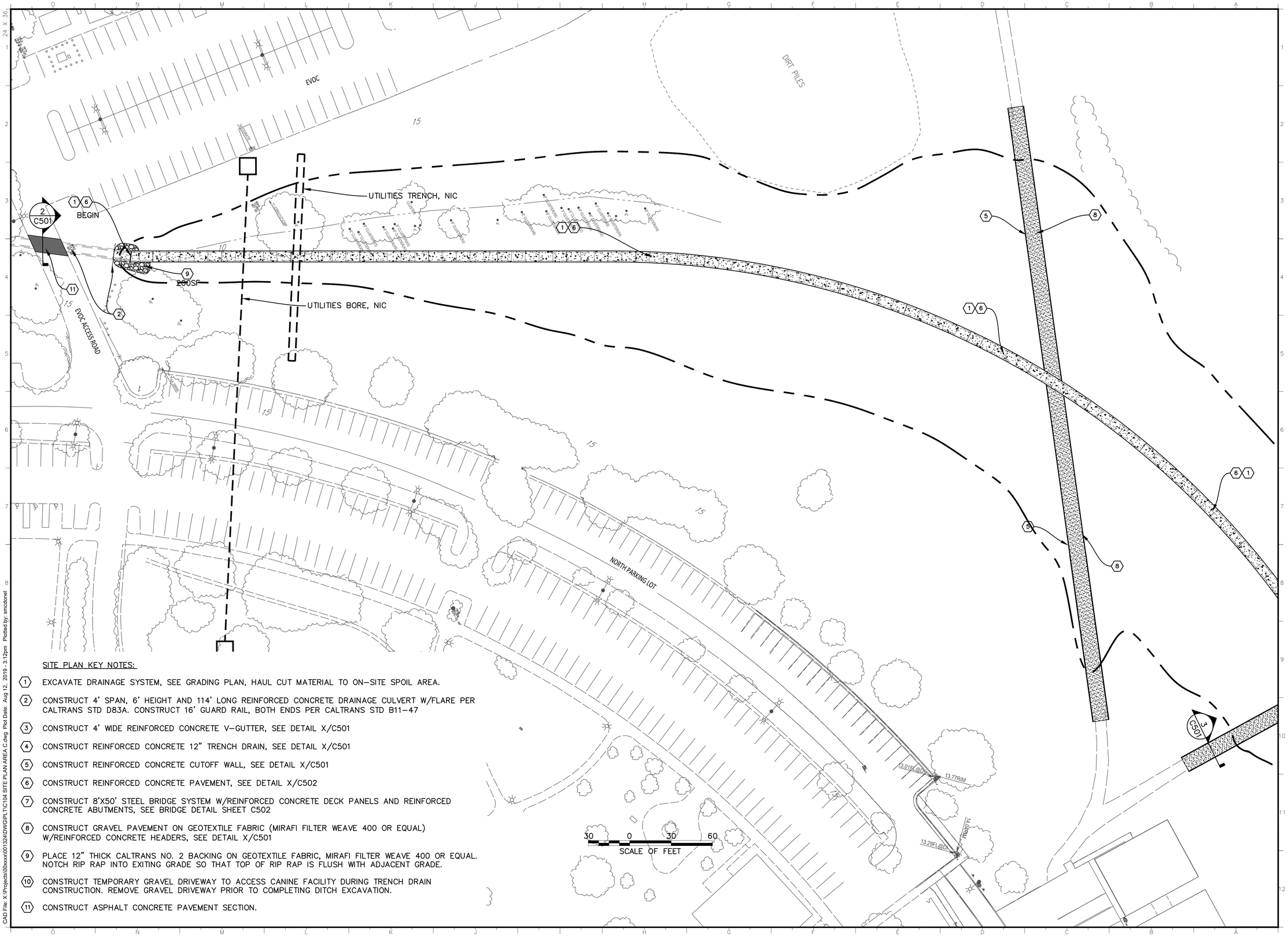
CAD File: X:\Projects\00xxxx\001324\DWG\PLT\C103 SITE PLAN AREA B.dwg Plot Date: Aug 12, 2019 - 3:10pm Plotted by: smcdonel



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6. CONSTRUCT REINFORCED CONCRETE PAVEMENT, SEE DETAIL X/C502
7. CONSTRUCT 8'X50' STEEL BRIDGE SYSTEM W/REINFORCED CONCRETE DECK PANELS AND REINFORCED CONCRETE ABUTMENTS, SEE BRIDGE DETAIL SHEET C502
8. CONSTRUCT GRAVEL PAVEMENT ON GEOTEXTILE FABRIC (MIRAFI FILTER WEAVE 400 OR EQUAL) W/REINFORCED CONCRETE HEADERS, SEE DETAIL X/C501
9. PLACE 12" THICK CALTRANS NO. 2 BACKING ON GEOTEXTILE FABRIC, MIRAFI FILTER WEAVE 400 OR EQUAL. NOTCH RIP RAP INTO EXITING GRADE SO THAT TOP OF RIP RAP IS FLUSH WITH ADJACENT GRADE.
10. CONSTRUCT TEMPORARY GRAVEL DRIVEWAY TO ACCESS CANINE FACILITY DURING TRENCH DRAIN CONSTRUCTION. REMOVE GRAVEL DRIVEWAY PRIOR TO COMPLETING DITCH EXCAVATION.
11. CONSTRUCT ASPHALT CONCRETE PAVEMENT SECTION.

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Permit No.: XX-X-XXXX-X

Reviewed by: _____

Date : _____

DGS GENERAL SERVICES

Department of General Services
Architecture & Engineering Sections
State of California
Real Estate Services Division
Project Management & Development Branch

707 Third Street, Suite 4-105
West Sacramento, California 95605

Project Manager: Travis Thrasher
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Travis.Thrasher@dgs.ca.gov

REGISTERED PROFESSIONAL ENGINEER Scott C. McDonell Civil STATE OF CALIFORNIA
PROGRESS SET NOT FOR CONSTRUCTION

Issue

No.	Date	Description
1	3/29/19	25% WDs
2	7/10/19	75% WDs

Project
CHP- ACADEMY DRAINAGE CHANNEL IMPROVEMENTS

3500 REED AVENUE
WEST SACRAMENTO, CA 95605
YOLO COUNTY

CALIFORNIA HIGHWAY PATROL

Supervisor	Designed	Drawn
E.VELAGIC	S.MCDONELL	S.MCDONELL

DSA App No.
0#-######

Sheet Title
SITE PLAN
AREA C

Project Number
000000000001324

Reference North

Sheet Scale
1"=30'

Sheet Number
C104

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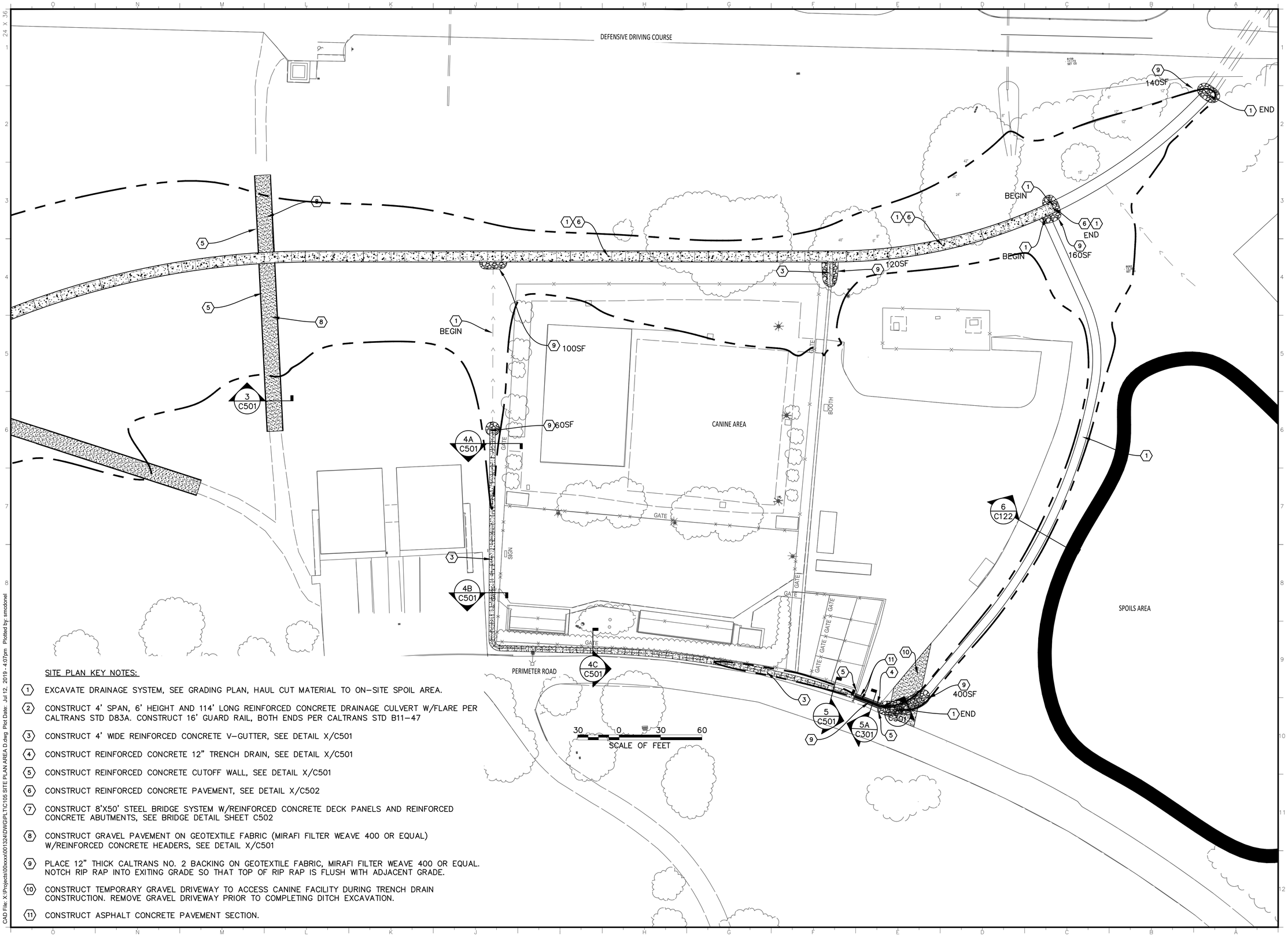
CAD File: X:\Projects\00xxxx\001324\DWG\PLTC\104 SITE PLAN AREA C.dwg Plot Date: Aug 12, 2019 - 3:12pm Plotted by: smcdonel



SITE PLAN KEY NOTES:

1. EXCAVATE DRAINAGE SYSTEM, SEE GRADING PLAN, HAUL CUT MATERIAL TO ON-SITE SPOIL AREA.
2. CONSTRUCT 4' SPAN, 6' HEIGHT AND 114' LONG REINFORCED CONCRETE DRAINAGE CULVERT W/FLARE PER CALTRANS STD D83A. CONSTRUCT 16' GUARD RAIL, BOTH ENDS PER CALTRANS STD B11-47
3. CONSTRUCT 4' WIDE REINFORCED CONCRETE V-GUTTER, SEE DETAIL X/C501
4. CONSTRUCT REINFORCED CONCRETE 12" TRENCH DRAIN, SEE DETAIL X/C501
5. CONSTRUCT REINFORCED CONCRETE CUTOFF WALL, SEE DETAIL X/C501
6. CONSTRUCT REINFORCED CONCRETE PAVEMENT, SEE DETAIL X/C502
7. CONSTRUCT 8'X50' STEEL BRIDGE SYSTEM W/REINFORCED CONCRETE DECK PANELS AND REINFORCED CONCRETE ABUTMENTS, SEE BRIDGE DETAIL SHEET C502
8. CONSTRUCT GRAVEL PAVEMENT ON GEOTEXTILE FABRIC (MIRAFI FILTER WEAVE 400 OR EQUAL) W/REINFORCED CONCRETE HEADERS, SEE DETAIL X/C501
9. PLACE 12" THICK CALTRANS NO. 2 BACKING ON GEOTEXTILE FABRIC, MIRAFI FILTER WEAVE 400 OR EQUAL. NOTCH RIP RAP INTO EXITING GRADE SO THAT TOP OF RIP RAP IS FLUSH WITH ADJACENT GRADE.
10. CONSTRUCT TEMPORARY GRAVEL DRIVEWAY TO ACCESS CANINE FACILITY DURING TRENCH DRAIN CONSTRUCTION. REMOVE GRAVEL DRIVEWAY PRIOR TO COMPLETING DITCH EXCAVATION.
11. CONSTRUCT ASPHALT CONCRETE PAVEMENT SECTION.

OFFICE OF THE STATE FIRE MARSHAL
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Permit No.: XX-X-XXXX-X

Reviewed by: _____

Date : _____

DGS GENERAL SERVICES

Department of General Services
Architecture & Engineering Sections
State of California
Real Estate Services Division
Project Management & Development Branch

707 Third Street, Suite 4-105
West Sacramento, California 95605

Project Manager: Travis Thrasher
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Travis.Thrasher@dgs.ca.gov

REGISTERED PROFESSIONAL ENGINEER SCOTT C. MCDONELL CIVIL STATE OF CALIFORNIA
PROGRESS SET NOT FOR CONSTRUCTION

Issue		
No.	Date	Description
1	3/29/19	25% WDs
2	7/10/19	75% WDs

Project
CHP- ACADEMY DRAINAGE CHANNEL IMPROVEMENTS

3500 REED AVENUE
WEST SACRAMENTO, CA 95605
YOLO COUNTY

CALIFORNIA HIGHWAY PATROL

Supervisor	Designed	Drawn
E.VELAGIC	S.MCDONELL	S.MCDONELL

DSA App No.
0#-######

Sheet Title
SITE PLAN
AREA D

Project Number
00000000001324

Reference North

Sheet Scale
1"=30'

Sheet Number
C105

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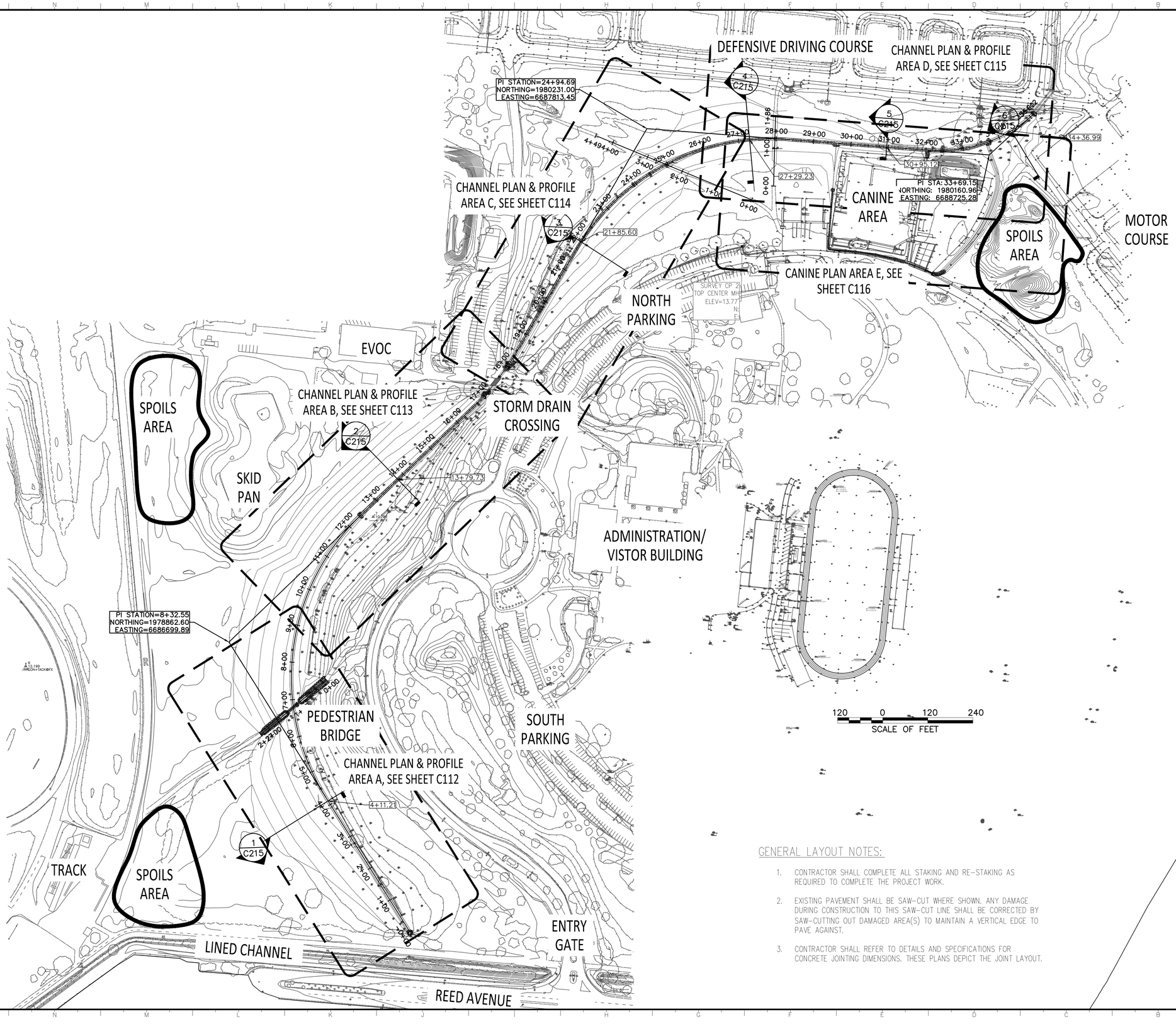
CAD File: X:\Projects\00xxxx\001324\DWG\PLTC105 SITE PLAN AREA D.dwg Plot Date: Jul 12, 2019 - 4:07pm Plotted by: smcdonel



GENERAL LAYOUT NOTES:

1. CONTRACTOR SHALL COMPLETE ALL STAKING AND RE-STAKING AS REQUIRED TO COMPLETE THE PROJECT WORK.
2. EXISTING PAVEMENT SHALL BE SAW-CUT WHERE SHOWN. ANY DAMAGE DURING CONSTRUCTION TO THIS SAW-CUT LINE SHALL BE CORRECTED BY SAW-CUTTING OUT DAMAGED AREA(S) TO MAINTAIN A VERTICAL EDGE TO PAVE AGAINST.
3. CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR CONCRETE JOINTING DIMENSIONS. THESE PLANS DEPICT THE JOINT LAYOUT.

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Permit No.: XX-X-XXXX-X

Reviewed by: _____

Date : _____

DGS GENERAL SERVICES

Department of General Services
Architecture & Engineering Sections
State of California
Real Estate Services Division
Project Management & Development Branch

707 Third Street, Suite 4-105
West Sacramento, California 95605

Project Manager: Travis Thrasher
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Travis.Thrasher@dgs.ca.gov

REGISTERED PROFESSIONAL ENGINEER Scott C. Gerig No. 18 CIVIL STATE OF CALIFORNIA
PROGRESS SET NOT FOR CONSTRUCTION

Issue

No.	Date	Description
1	3/29/19	25% WDs
2	7/10/19	75% WDs

Project
CHP- ACADEMY DRAINAGE CHANNEL IMPROVEMENTS

3500 REED AVENUE
WEST SACRAMENTO, CA 95605
YOLO COUNTY

CALIFORNIA HIGHWAY PATROL

Supervisor	Designed	Drawn
E. VELAGIC	S. MCDONELL	S. MCDONELL

DSA App No.
0#-######

Sheet Title
CHANNEL PLAN OVERALL

Project Number
000000000001324

Reference North

Sheet Scale
1" = 120'-0"

Sheet Number
C111

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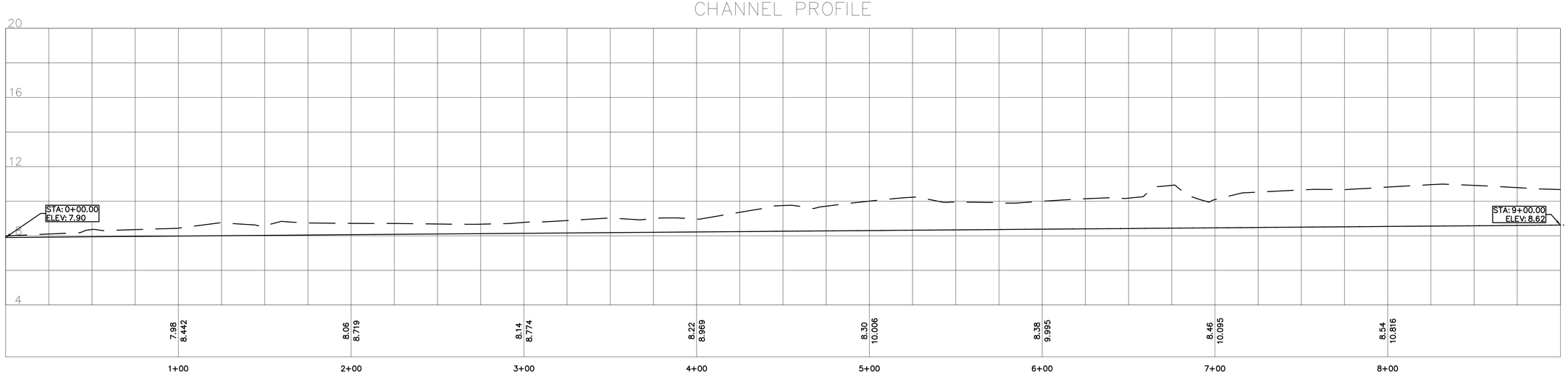
CAD File: X:\Projects\00xxxx\001324\DWG\PLTC\111 CHANNEL PLAN OVERALL.dwg Plot Date: Jul 12, 2019 - 5:01pm Plotted by: smcdgnel

24 X 36

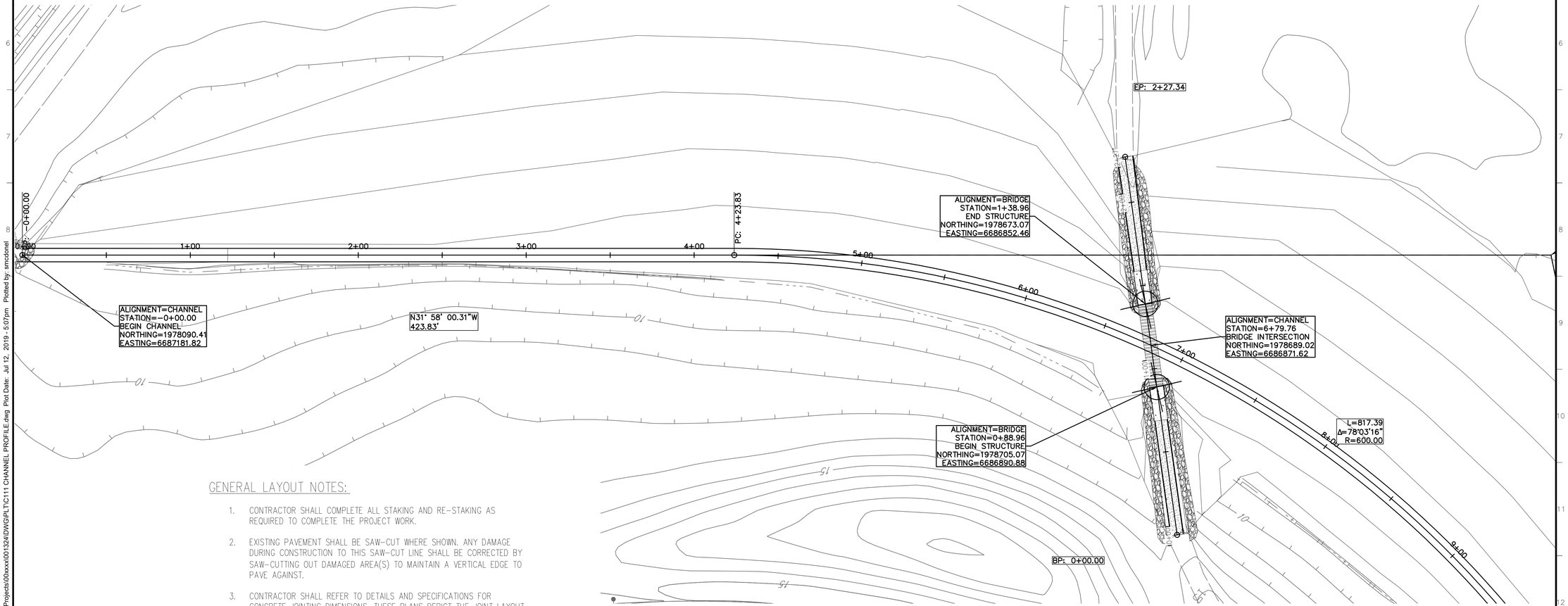
CHANNEL PROFILE



PROFILE STATION 0+00 TO 9+00

SCALE: 1" = 30'

30 0 30 60
SCALE OF FEET



GENERAL LAYOUT NOTES:

1. CONTRACTOR SHALL COMPLETE ALL STAKING AND RE-STAKING AS REQUIRED TO COMPLETE THE PROJECT WORK.
2. EXISTING PAVEMENT SHALL BE SAW-CUT WHERE SHOWN. ANY DAMAGE DURING CONSTRUCTION TO THIS SAW-CUT LINE SHALL BE CORRECTED BY SAW-CUTTING OUT DAMAGED AREA(S) TO MAINTAIN A VERTICAL EDGE TO PAVE AGAINST.
3. CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR CONCRETE JOINTING DIMENSIONS. THESE PLANS DEPICT THE JOINT LAYOUT.

PLAN STATION 0+00 TO 9+00

SCALE: 1" = 30'

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

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Permit No.: XX-X-XXXX-X

Reviewed by: _____

Date : _____

DGS GENERAL SERVICES

Department of General Services
Architecture & Engineering Sections
State of California
Real Estate Services Division
Project Management & Development Branch

707 Third Street, Suite 4-105
West Sacramento, California 95605

Project Manager: Travis Thrasher
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Travis.Thrasher@dgs.ca.gov

REGISTERED PROFESSIONAL ENGINEER
SCOTT C. MCDONELL
No. 74161
CIVIL
STATE OF CALIFORNIA
PROGRESS SET
NOT FOR CONSTRUCTION

Issue		
No.	Date	Description
1	3/29/19	25% WDs
2	7/10/19	75% WDs

Project
CHP- ACADEMY DRAINAGE CHANNEL IMPROVEMENTS

3500 REED AVENUE
WEST SACRAMENTO, CA 95605
YOLO COUNTY

CALIFORNIA HIGHWAY PATROL

Supervisor	Designed	Drawn
E. VELAGIC	S. MCDONELL	S. MCDONELL

DSA App No.
0#-######

Sheet Title
CHANNEL PROFILE ENLARGED ARE A

Project Number
000000000001324

Reference North

Sheet Scale
1" = 30'-0"

Sheet Number
C111

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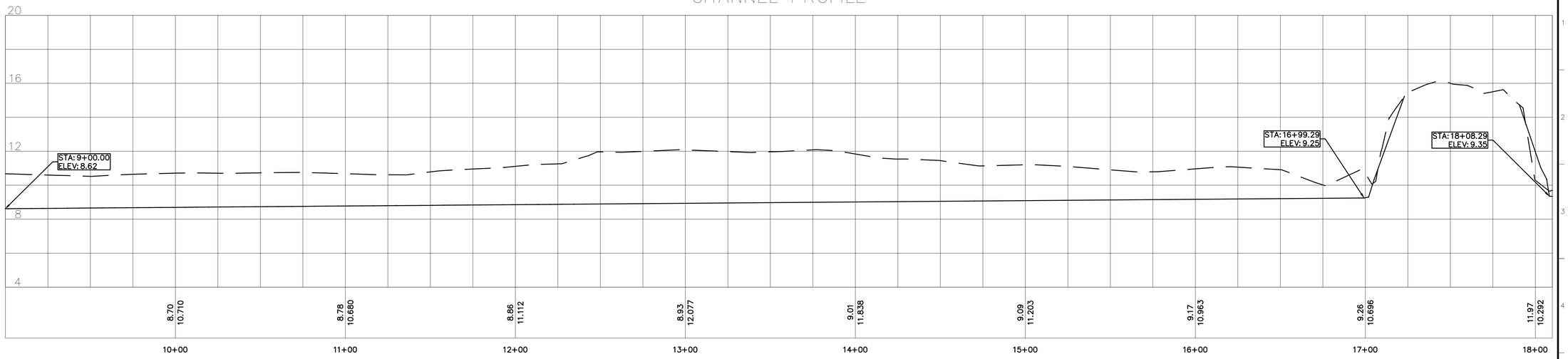
CAD File: X:\Projects\00xxxx\001324\DWG\PLTC\111 CHANNEL PROFILE.dwg Plot Date: Jul 12, 2019 - 5:07pm Plotted by: smcdonel

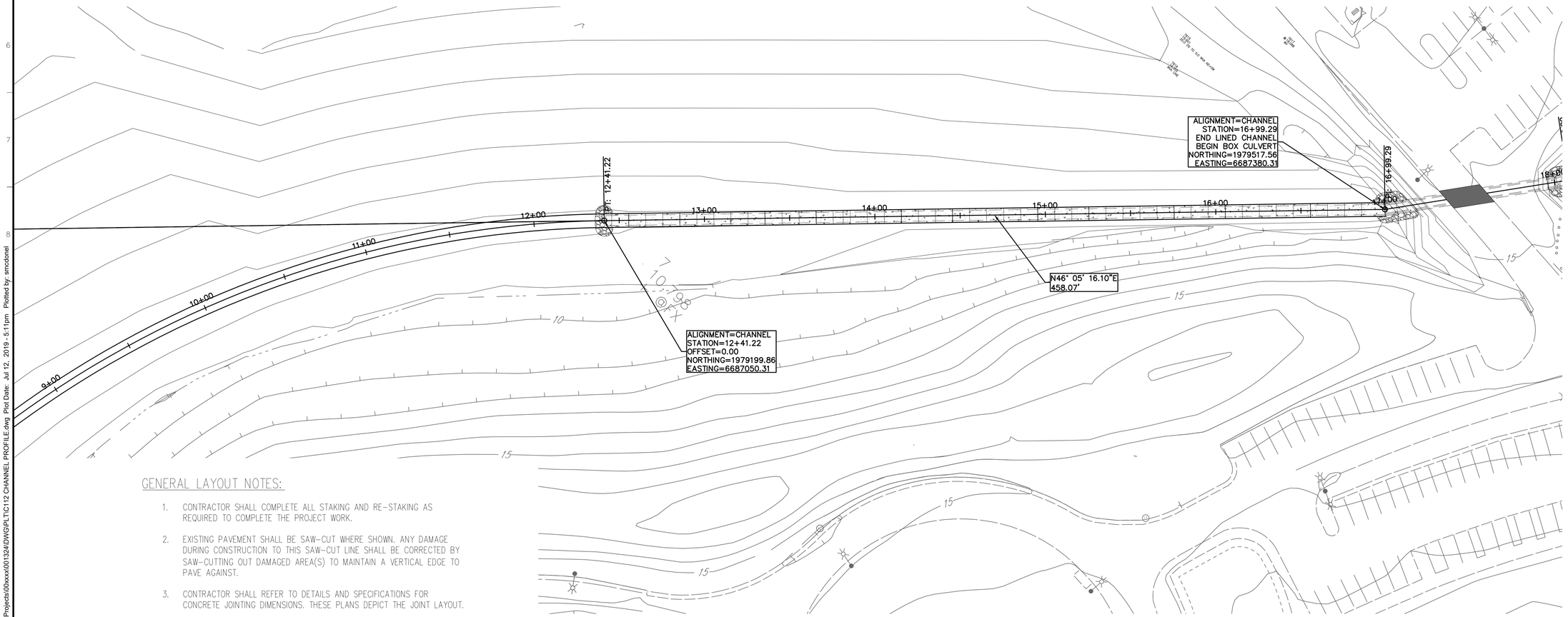
CHANNEL PROFILE



30 0 30 60
SCALE OF FEET

PROFILE STATION 9+00 TO 18+10

SCALE: 1" = 30'



GENERAL LAYOUT NOTES:

1. CONTRACTOR SHALL COMPLETE ALL STAKING AND RE-STAKING AS REQUIRED TO COMPLETE THE PROJECT WORK.
2. EXISTING PAVEMENT SHALL BE SAW-CUT WHERE SHOWN. ANY DAMAGE DURING CONSTRUCTION TO THIS SAW-CUT LINE SHALL BE CORRECTED BY SAW-CUTTING OUT DAMAGED AREA(S) TO MAINTAIN A VERTICAL EDGE TO PAVE AGAINST.
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PLAN STATION 9+00 TO 18+10

SCALE: 1" = 30'

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

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Permit No.: XX-X-XXXX-X

Reviewed by: _____

Date : _____

DGS GENERAL SERVICES

Department of General Services
Architecture & Engineering Sections
State of California
Real Estate Services Division
Project Management & Development Branch
707 Third Street, Suite 4-105
West Sacramento, California 95605
Project Manager: Travis Thrasher
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REGISTERED PROFESSIONAL ENGINEER
SCOTT C. DONELL
No. 18761
CIVIL
STATE OF CALIFORNIA
PROGRESS SET
NOT FOR CONSTRUCTION

Issue

No.	Date	Description
1	3/29/19	25% WDs
2	7/10/19	75% WDs

Project
CHP- ACADEMY DRAINAGE CHANNEL IMPROVEMENTS

3500 REED AVENUE
WEST SACRAMENTO, CA 95605
YOLO COUNTY

CALIFORNIA HIGHWAY PATROL

Supervisor	Designed	Drawn
E. VELAGIC	S. MCDONELL	S. MCDONELL

DSA App No.
0#-######

Sheet Title
CHANNEL PROFILE AREA B

Project Number
00000000001324

Reference North

Sheet Scale
1" = 30'-0"

Sheet Number
C112

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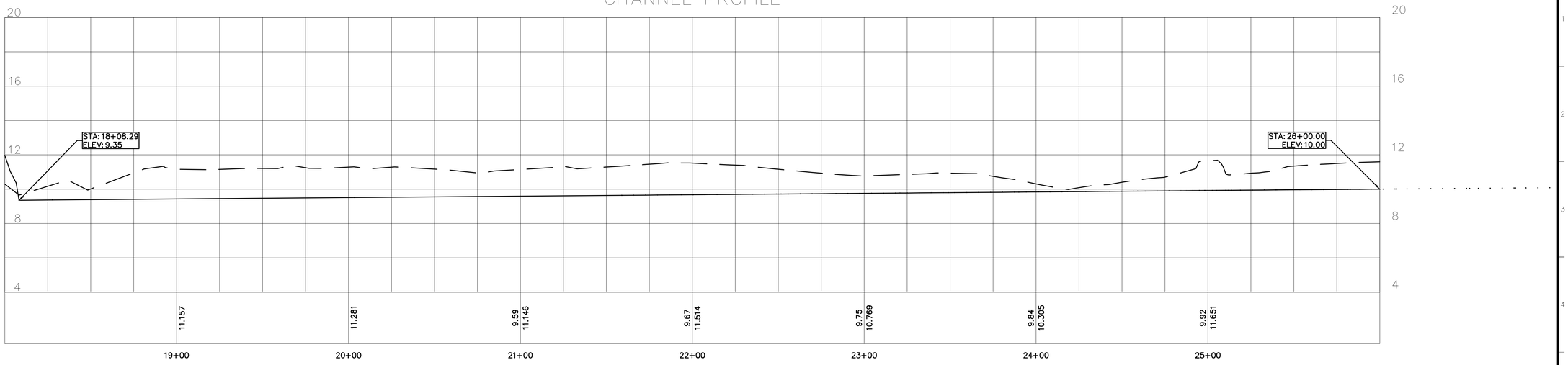
CAD File: X:\Projects\00xxxx\001324\DWG\PLT\C112 CHANNEL PROFILE.dwg Plot Date: Jul 12, 2019 - 5:11pm Plotted by: smcdonel

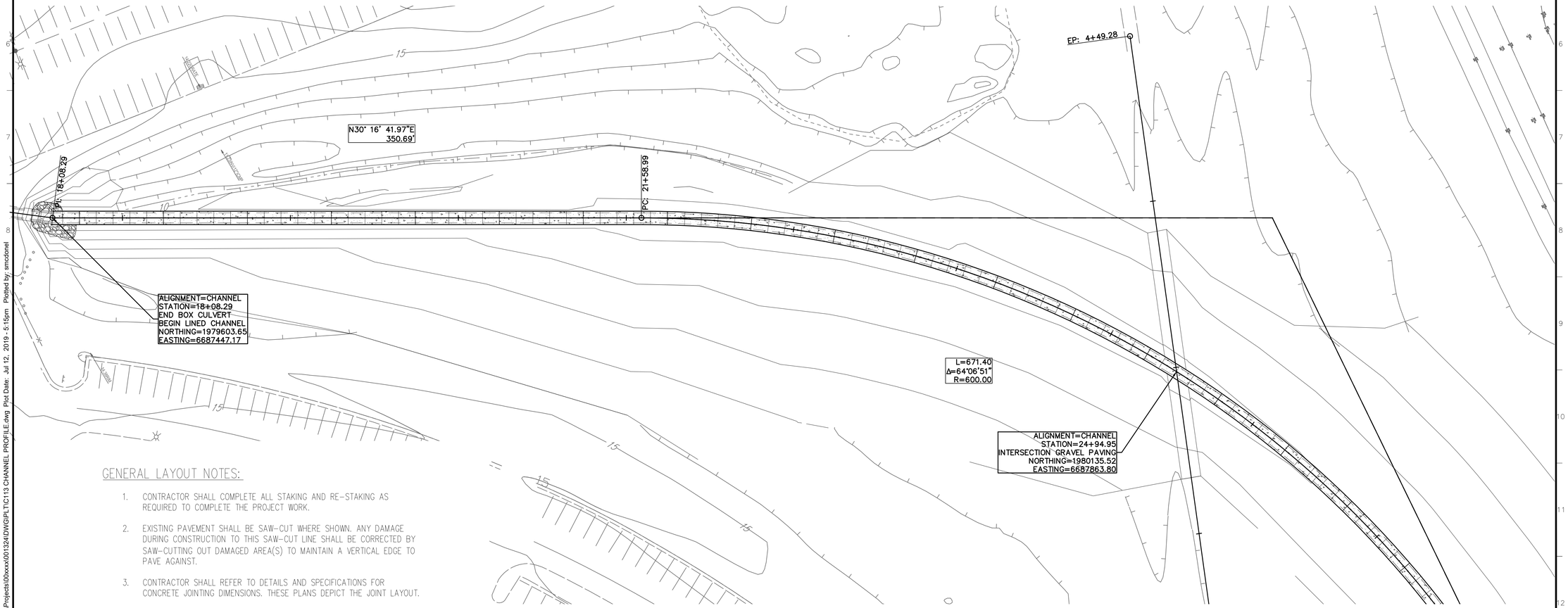
CHANNEL PROFILE



PROFILE STATION 18+10 TO 26+00

SCALE: 1" = 30'

30 0 30 60
SCALE OF FEET



GENERAL LAYOUT NOTES:

1. CONTRACTOR SHALL COMPLETE ALL STAKING AND RE-STAKING AS REQUIRED TO COMPLETE THE PROJECT WORK.
2. EXISTING PAVEMENT SHALL BE SAW-CUT WHERE SHOWN. ANY DAMAGE DURING CONSTRUCTION TO THIS SAW-CUT LINE SHALL BE CORRECTED BY SAW-CUTTING OUT DAMAGED AREA(S) TO MAINTAIN A VERTICAL EDGE TO PAVE AGAINST.
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PLAN STATION 8+10 TO 26+00

SCALE: 1" = 30'

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

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Permit No.: XX-X-XXXX-X

Reviewed by: _____

Date : _____

DGS GENERAL SERVICES

Department of General Services
Architecture & Engineering Sections
State of California
Real Estate Services Division
Project Management & Development Branch

707 Third Street, Suite 4-105
West Sacramento, California 95605

Project Manager: Travis Thrasher
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916 375 - 4196 Fax
Travis.Thrasher@dgs.ca.gov

REGISTERED PROFESSIONAL ENGINEER
SCOTT C. [illegible]
No. [illegible]
CIVIL
STATE OF CALIFORNIA
PROGRESS SET
NOT FOR CONSTRUCTION

Issue

No.	Date	Description
1	3/29/19	25% WDs
2	7/10/19	75% WDs

Project

CHP- ACADEMY DRAINAGE CHANNEL IMPROVEMENTS

3500 REED AVENUE
WEST SACRAMENTO, CA 95605
YOLO COUNTY

CALIFORNIA HIGHWAY PATROL

Supervisor	Designed	Drawn
E. VELAGIC	S. MCDONELL	S. MCDONELL

DSA App No.
0#-######

Sheet Title
CHANNEL PROFILE AREA C

Project Number
000000000001324

Reference North

Sheet Scale
1" = 30'-0"

Sheet Number
C113

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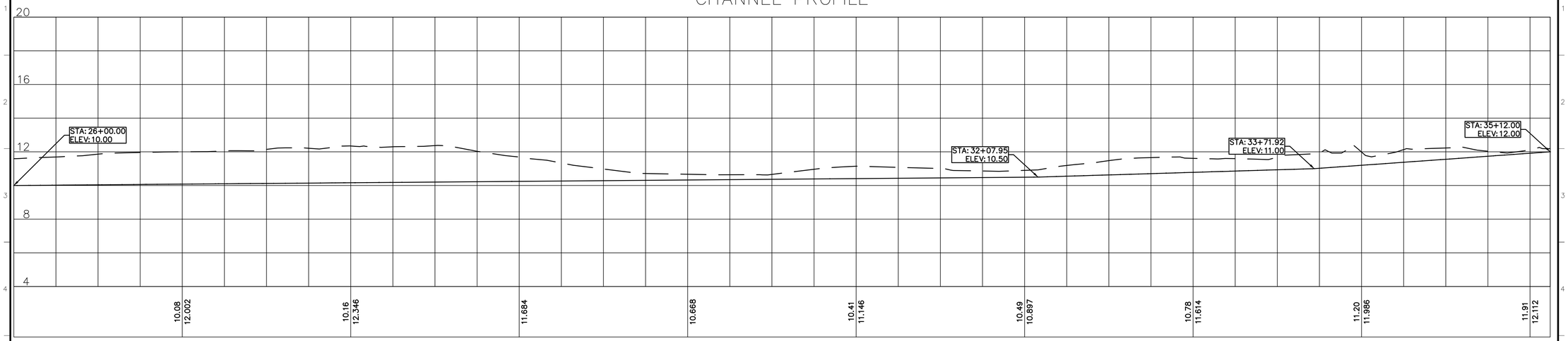
CAD File: X:\Projects\00xxx\00132\40\DWG\PLTC113 CHANNEL PROFILE.dwg Plot Date: Jul 12, 2019 - 5:15pm Plotted by: smcdonel

CHANNEL PROFILE



GENERAL LAYOUT NOTES:

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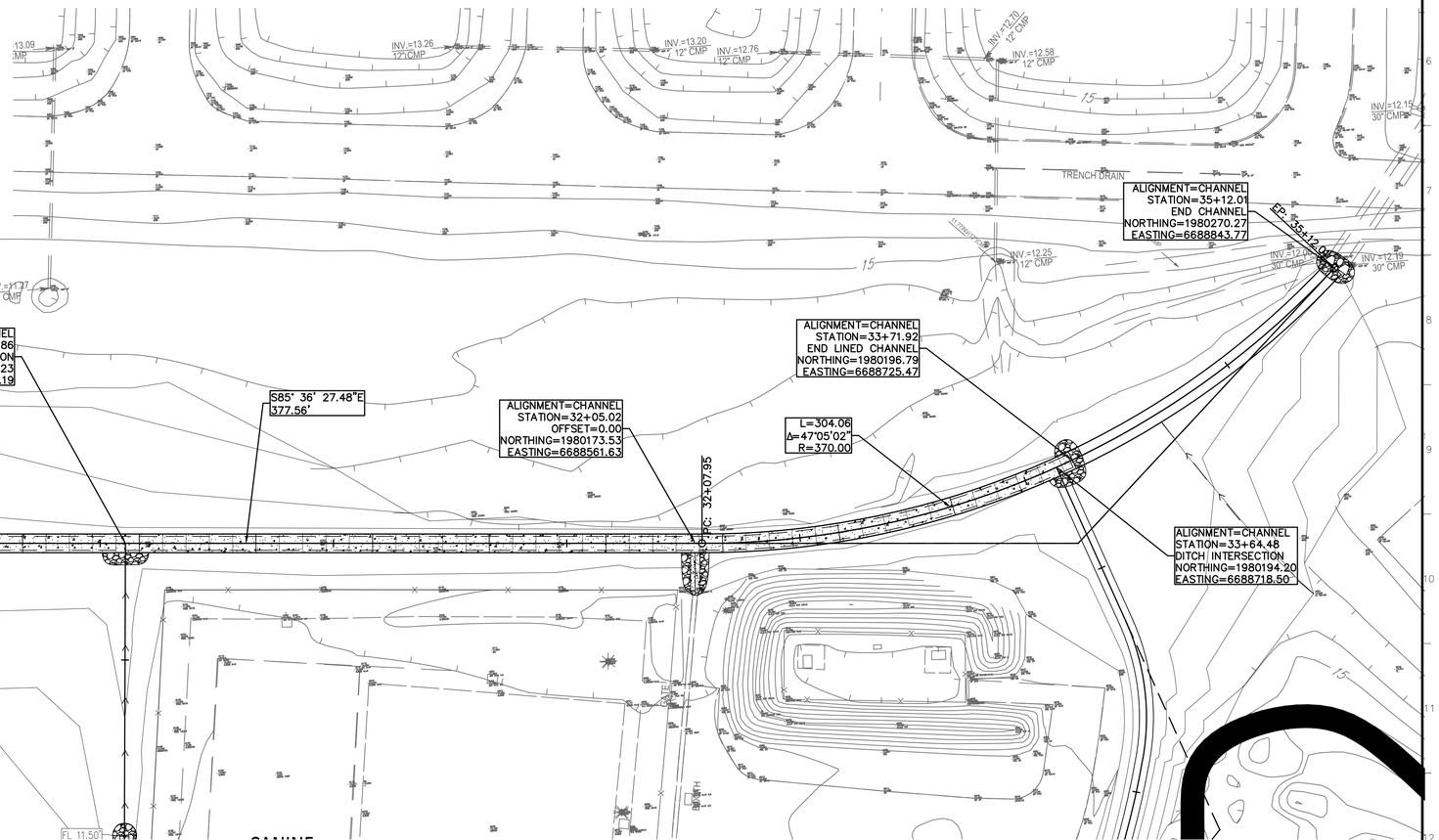
PROFILE STATION 26+00 TO 35+12

SCALE: 1" = 30'

30 0 30 60
SCALE OF FEET



PLAN STATION 26+00 TO 35+12

SCALE: 1" = 30'

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

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Permit No.: XX-X-XXXX-X

Reviewed by: _____

Date : _____

DGS GENERAL SERVICES

Department of General Services
Architecture & Engineering Sections
State of California
Real Estate Services Division
Project Management & Development Branch

707 Third Street, Suite 4-105
West Sacramento, California 95605

Project Manager: Travis Thrasher
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916 375 - 4196 Fax
Travis.Thrasher@dgs.ca.gov

REGISTERED PROFESSIONAL ENGINEER
SCOTT C. [illegible]
No. [illegible]
CIVIL
STATE OF CALIFORNIA
PROGRESS SET NOT FOR CONSTRUCTION

Issue		
No.	Date	Description
1	3/29/19	25% WDs
2	7/10/19	75% WDs

Project
CHP- ACADEMY DRAINAGE CHANNEL IMPROVEMENTS

3500 REED AVENUE
WEST SACRAMENTO, CA 95605
YOLO COUNTY

CALIFORNIA HIGHWAY PATROL

Supervisor	Designed	Drawn
E. VELAGIC	S. MCDONELL	S. MCDONELL

DSA App No.
0#.######

Sheet Title
CHANNEL PROFILE AREA D

Project Number
000000000001324

Reference North

Sheet Scale
1" = 30'-0"

Sheet Number
C114

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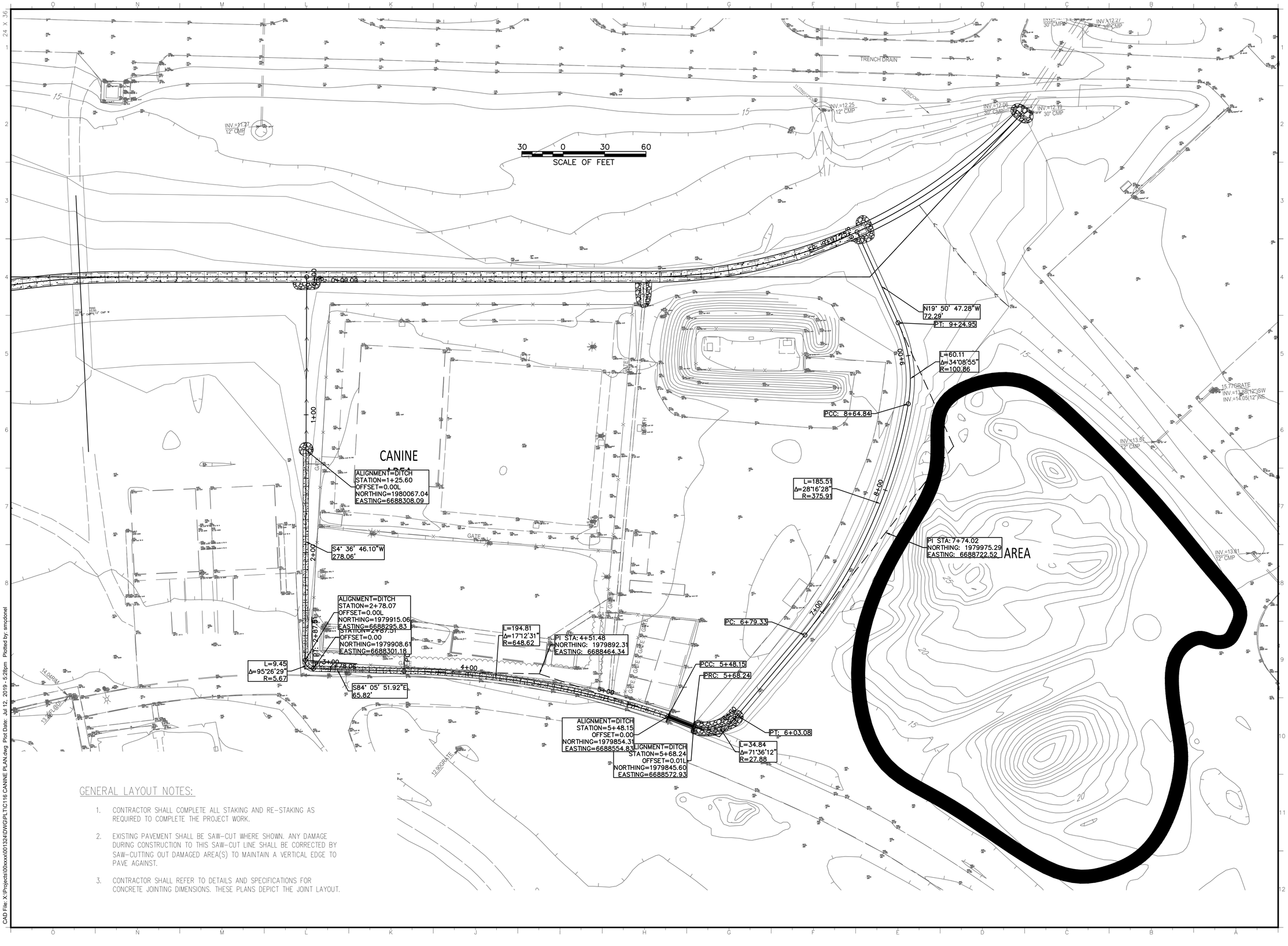
CAD File: X:\Projects\00xxxx\001324\DWG\PLTC\114 CHANNEL PROFILE.dwg Plot Date: Jul 12, 2019 - 5:21pm Plotted by: smcdonel



GENERAL LAYOUT NOTES:

1. CONTRACTOR SHALL COMPLETE ALL STAKING AND RE-STAKING AS REQUIRED TO COMPLETE THE PROJECT WORK.
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OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

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Permit No.: XX-X-XXXX-X

Reviewed by: _____

Date : _____

DGS GENERAL SERVICES

Department of General Services
Architecture & Engineering Sections
State of California
Real Estate Services Division
Project Management & Development Branch

707 Third Street, Suite 4-105
West Sacramento, California 95605

Project Manager: Travis Thrasher
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Travis.Thrasher@dgs.ca.gov

REGISTERED PROFESSIONAL ENGINEER
SCOTT C. SCHMIDT
No. 18
CIVIL
STATE OF CALIFORNIA
PROGRESS SET
NOT FOR CONSTRUCTION

Issue

No.	Date	Description
1	3/29/19	25% WDs
2	7/10/19	75% WDs

Project

CHP- ACADEMY DRAINAGE CHANNEL IMPROVEMENTS

3500 REED AVENUE
WEST SACRAMENTO, CA 95605
YOLO COUNTY

CALIFORNIA HIGHWAY PATROL

Supervisor	Designed	Drawn
E. VELAGIC	S. MCDONELL	S. MCDONELL

DSA App No.
0#-######

Sheet Title
CANINE LAYOUT AREA E

Project Number
000000000001324

Reference North

Sheet Scale
1" = 30'-0"

Sheet Number
C116

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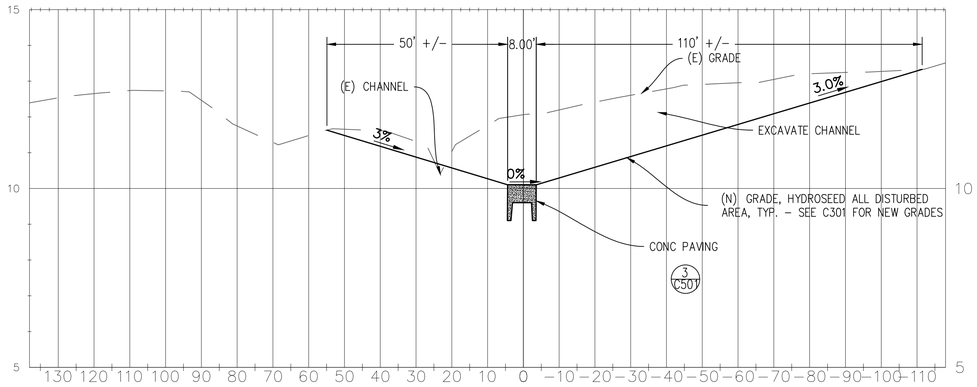
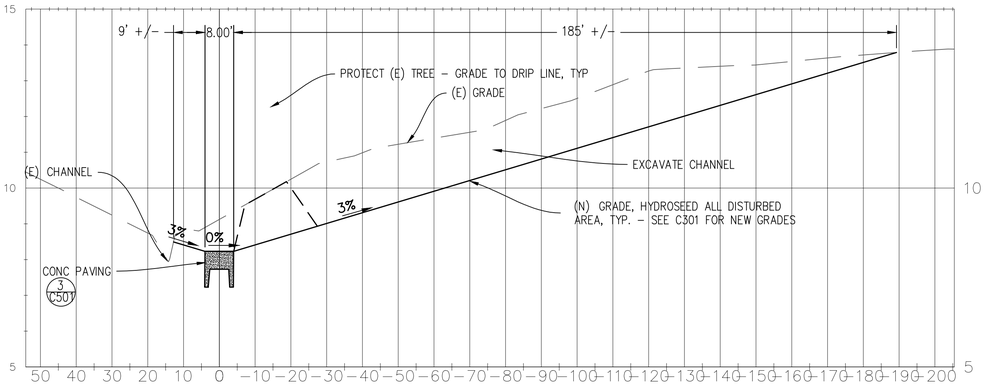
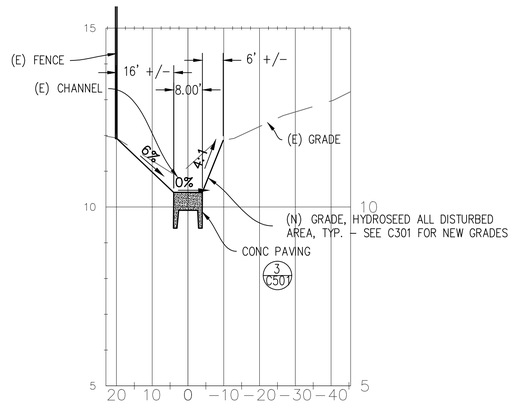
CAD File: X:\Projects\00xxxx\001324\DWG\PLT\C116 CANINE PLAN.dwg Plot Date: Jul 12, 2019 - 5:28pm Plotted by: smcdonel



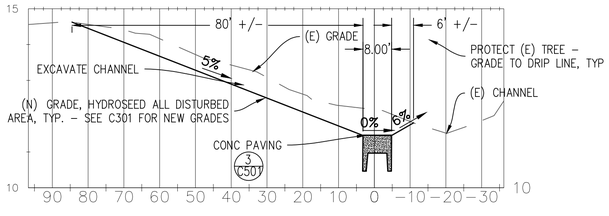
SECTION 4
SCALE: 1" = 20'



SECTION 1
SCALE: 1" = 20'



SECTION 5
SCALE: 1" = 20'



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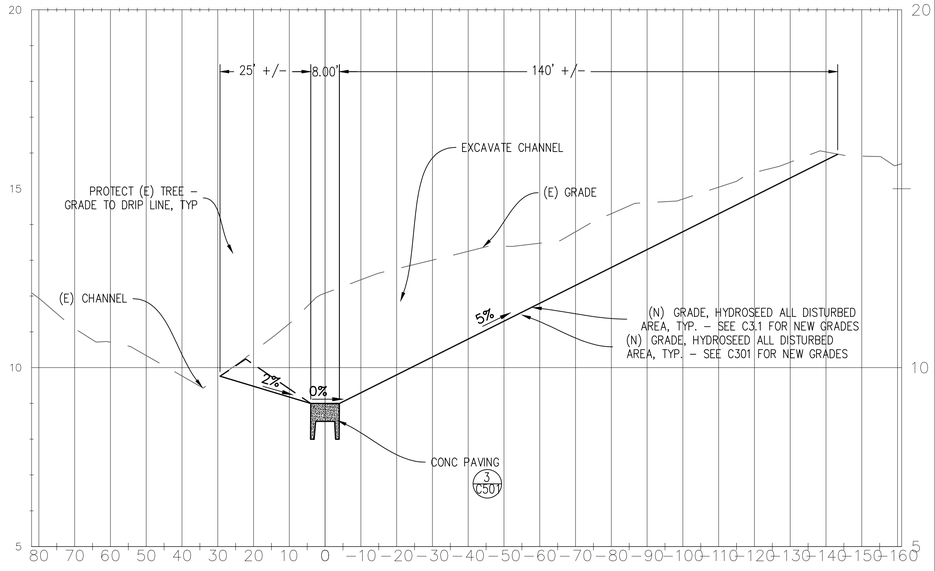

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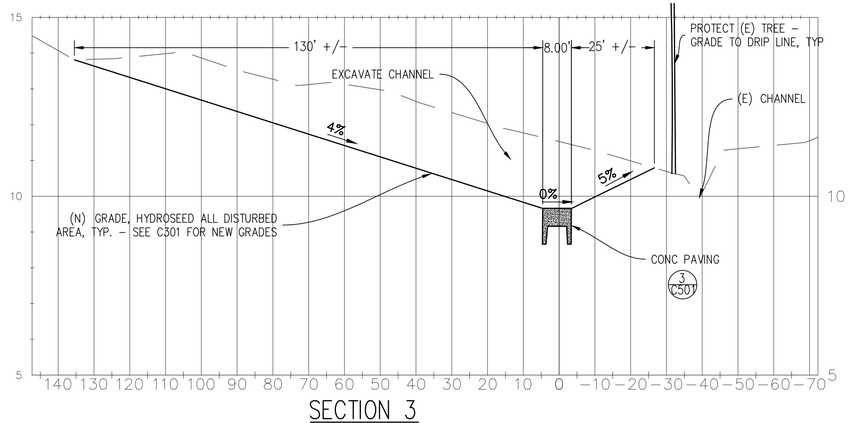
SCALE: 1" = 20'



SECTION 3
SCALE: 1" = 20'

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

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Permit No.: XX-X-XXXX-X

Reviewed by: _____

Date : _____

DGS GENERAL SERVICES

Department of General Services
Architecture & Engineering Sections
State of California
Real Estate Services Division
Project Management & Development Branch

707 Third Street, Suite 4-105
West Sacramento, California 95605

Project Manager: Travis Thrasher
916 375 - 4259 Voice
916 375 - 4196 Fax
Travis.Thrasher@dgs.ca.gov

REGISTERED PROFESSIONAL ENGINEER SCOTT C. MCDONELL No. 19 CIVIL STATE OF CALIFORNIA
PROGRESS SET NOT FOR CONSTRUCTION

Issue

No.	Date	Description
1	3/29/19	25% WDs
2	7/10/19	75% WDs

Project
CHP- ACADEMY DRAINAGE CHANNEL IMPROVEMENTS

3500 REED AVENUE
WEST SACRAMENTO, CA 95605
YOLO COUNTY

CALIFORNIA HIGHWAY PATROL

Supervisor	Designed	Drawn
E. VELAGIC	S. MCDONELL	D. BASUKI

DSA App No.
0#-######

Sheet Title
CHANNEL SECTIONS

Project Number
000000000001324

Reference North

Sheet Scale
1" = 30'-0"

Sheet Number
C115

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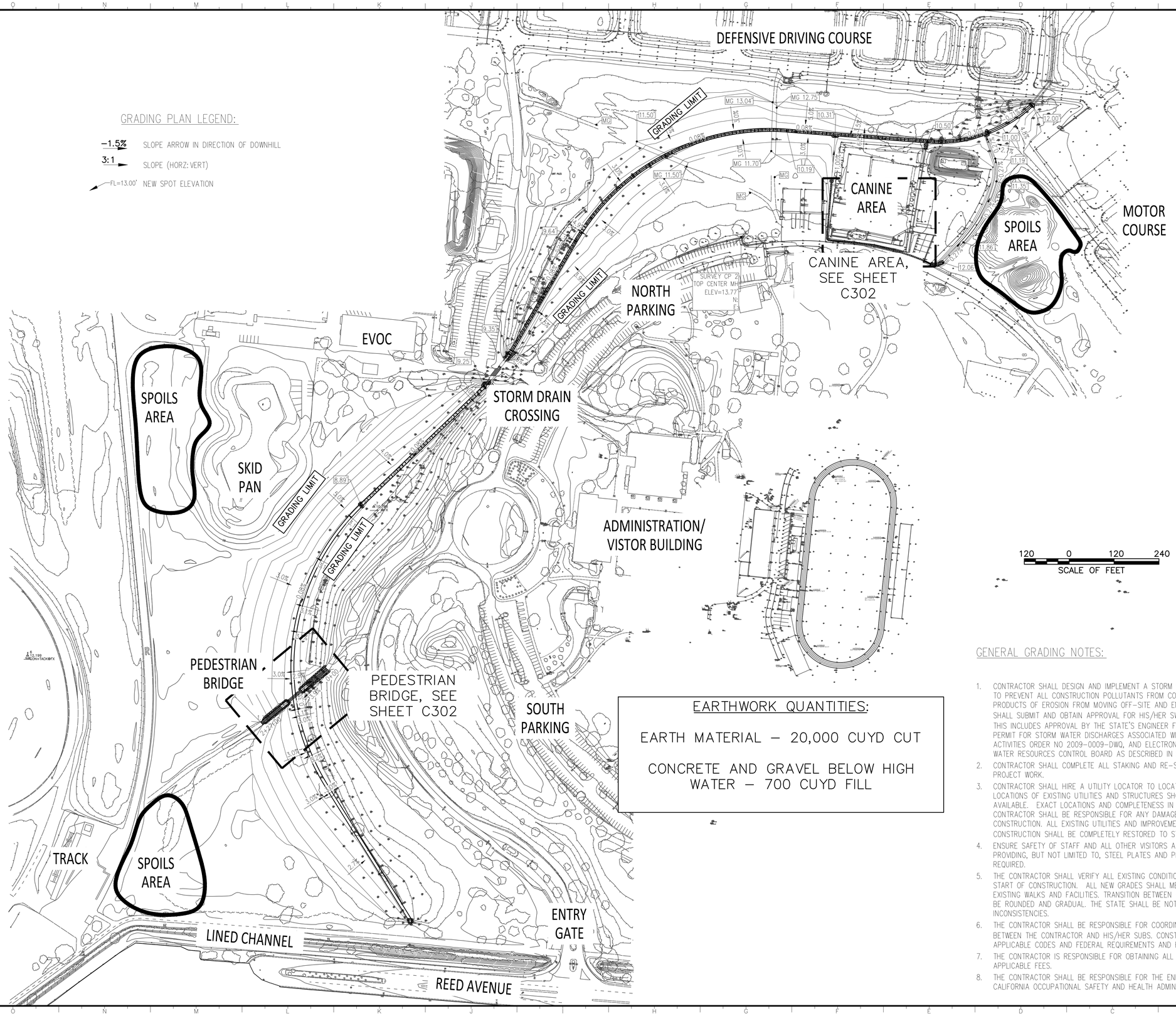
CAD File: X:\Projects\00xxxx\001324\DWG\PLTC115 CHANNEL SECTIONS.dwg Plot Date: Jul 12, 2019 - 5:30pm Plotted by: smcdonel



EARTHWORK QUANTITIES:

EARTH MATERIAL – 20,000 CUYD CUT

CONCRETE AND GRAVEL BELOW HIGH WATER – 700 CUYD FILL

GENERAL GRADING NOTES:

1. CONTRACTOR SHALL DESIGN AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) TO PREVENT ALL CONSTRUCTION POLLUTANTS FROM CONTACTING STORM WATER AND KEEP ALL PRODUCTS OF EROSION FROM MOVING OFF-SITE AND ENTERING RECEIVING WATERS. CONTRACTOR SHALL SUBMIT AND OBTAIN APPROVAL FOR HIS/HER SWPPP PRIOR TO START OF CONSTRUCTION. THIS INCLUDES APPROVAL BY THE STATE'S ENGINEER FOR THE SWPPP, COMPLYING WITH GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRICTION AND LAND DISTURBANCE ACTIVITIES ORDER NO 2009-0009-DWQ, AND ELECTRONICALLY FILING ALL DOCUMENTS TO THE STATE WATER RESOURCES CONTROL BOARD AS DESCRIBED IN SPECIFICATION SECTION 31 25 00.
2. CONTRACTOR SHALL COMPLETE ALL STAKING AND RE-STAKING AS REQUIRED TO COMPLETE THE PROJECT WORK.
3. CONTRACTOR SHALL HIRE A UTILITY LOCATOR TO LOCATE AND VERIFY DEPTHS OF EXISTING UTILITIES. LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN HERE ARE FROM BEST INFORMATION AVAILABLE. EXACT LOCATIONS AND COMPLETENESS IN THESE PLANS ARE NOT GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION. ALL EXISTING UTILITIES AND IMPROVEMENTS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO STATE'S SATISFACTION.
4. ENSURE SAFETY OF STAFF AND ALL OTHER VISITORS AT OR NEAR CONSTRUCTION SITE BY PROVIDING, BUT NOT LIMITED TO, STEEL PLATES AND PROPERLY MAINTAINED BARRIER FENCES WHERE REQUIRED.
5. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, GRADES, AND ELEVATIONS PRIOR TO START OF CONSTRUCTION. ALL NEW GRADES SHALL MEET AND BLEND WITH EXISTING GRADES AT EXISTING WALKS AND FACILITIES. TRANSITION BETWEEN SLOPES AND RELATIVELY FLAT AREAS SHALL BE ROUNDED AND GRADUAL. THE STATE SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORKMANSHIP AND MATERIALS BETWEEN THE CONTRACTOR AND HIS/HER SUBS. CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE APPLICABLE CODES AND FEDERAL REQUIREMENTS AND REGULATIONS.
7. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND PAYING ALL APPLICABLE FEES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENFORCEMENT OF FEDERAL AND STATE OF CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REQUIREMENTS AND REGULATIONS.

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

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Permit No.: XX-X-XXXX-X

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DGS GENERAL SERVICES

Department of General Services
Architecture & Engineering Sections
State of California
Real Estate Services Division
Project Management & Development Branch

707 Third Street, Suite 4-105
West Sacramento, California 95605

Project Manager: Travis Thrasher
916 375 - 4259 Voice
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Travis.Thrasher@dgs.ca.gov

REGISTERED PROFESSIONAL ENGINEER Scott C. Gerig No. 74161 CIVIL STATE OF CALIFORNIA
PROGRESS SET NOT FOR CONSTRUCTION

Issue		
No.	Date	Description
1	3/29/19	25% WDs
2	7/10/19	75% WDs

Project
CHP- ACADEMY DRAINAGE CHANNEL IMPROVEMENTS

3500 REED AVENUE
WEST SACRAMENTO, CA 95605
YOLO COUNTY

CALIFORNIA HIGHWAY PATROL

Supervisor	Designed	Drawn
E. VELAGIC	S. MCDONELL	S. MCDONELL

DSA App No.
0#-######

Sheet Title
GRADING PLAN OVERALL

Project Number
00000000001324

Reference North

Sheet Scale
1" = 120'-0"

Sheet Number
C301

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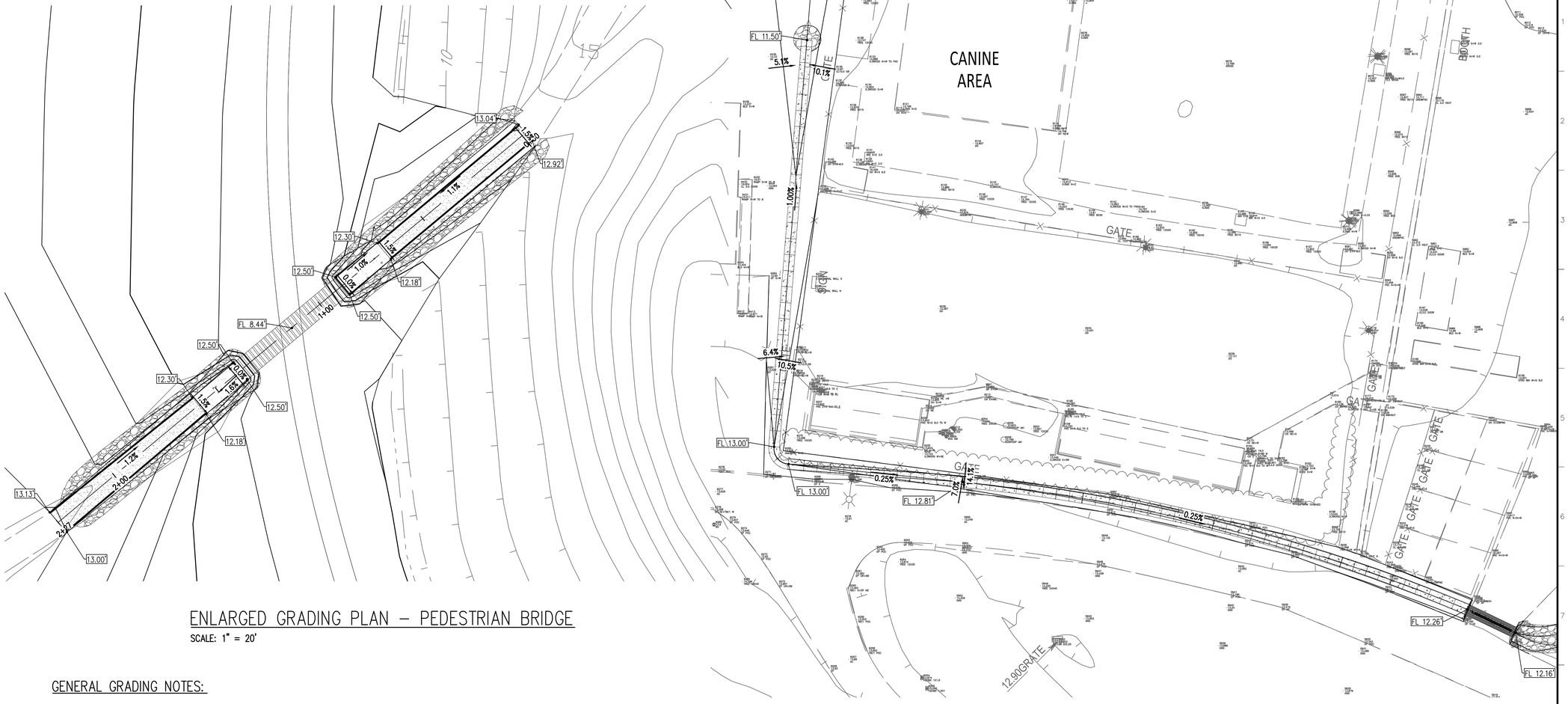
CAD File: X:\Projects\00xxxx\001324\DWG\PLT\C301 GRADING PLAN OVERALL.dwg Plot Date: Jul 12, 2019 - 5:39pm Plotted by: smcdojel



ENLARGED GRADING PLAN – PEDESTRIAN BRIDGE

SCALE: 1" = 20'

ENLARGED GRADING PLAN – CANINE AREA

SCALE: 1" = 20'

GENERAL GRADING NOTES:

1. CONTRACTOR SHALL DESIGN AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) TO PREVENT ALL CONSTRUCTION POLLUTANTS FROM CONTACTING STORM WATER AND KEEP ALL PRODUCTS OF EROSION FROM MOVING OFF-SITE AND ENTERING RECEIVING WATERS. CONTRACTOR SHALL SUBMIT AND OBTAIN APPROVAL FOR HIS/HER SWPPP PRIOR TO START OF CONSTRUCTION. THIS INCLUDES APPROVAL BY THE STATE'S ENGINEER FOR THE SWPPP, COMPLYING WITH GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRICTION AND LAND DISTURBANCE ACTIVITIES ORDER NO 2009-0009-DWQ, AND ELECTRONICALLY FILING ALL DOCUMENTS TO THE STATE WATER RESOURCES CONTROL BOARD AS DESCRIBED IN SPECIFICATION SECTION 31 25 00.
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GRADING PLAN LEGEND:

-1.5%	SLOPE ARROW IN DIRECTION OF DOWNHILL
3:1	SLOPE (HORZ: VERT)
FL=13.00'	NEW SPOT ELEVATION

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State of California
Real Estate Services Division
Project Management & Development Branch

707 Third Street, Suite 4-105
West Sacramento, California 95605

Project Manager: Travis Thrasher
916 375 - 4259 Voice
916 375 - 4196 Fax
Travis.Thrasher@dgs.ca.gov

REGISTERED PROFESSIONAL ENGINEER
SCOTT C. MCDONELL
No. 18211
CIVIL
STATE OF CALIFORNIA
PROGRESS SET
NOT FOR CONSTRUCTION

Issue

No.	Date	Description
1	3/29/19	25% WDs
2	7/10/19	75% WDs

Project
CHP- ACADEMY DRAINAGE CHANNEL IMPROVEMENTS

3500 REED AVENUE
WEST SACRAMENTO, CA 95605
YOLO COUNTY

CALIFORNIA HIGHWAY PATROL

Supervisor	Designed	Drawn
E. VELAGIC	S. MCDONELL	S. MCDONELL

DSA App No.
0#-######

Sheet Title
GRADING PLAN
ENLARGED AREAS

Project Number
000000000001324

Reference North

Sheet Scale
1" = 20'-0"

Sheet Number
C302

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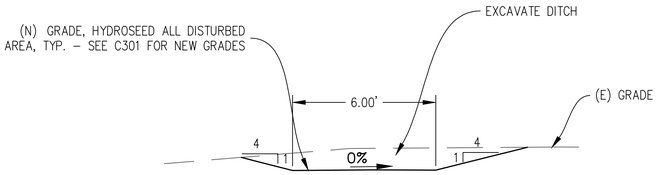
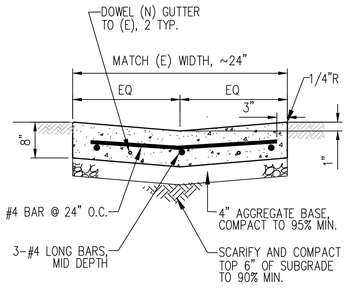
CAD File: X:\Projects\00xxxx\001324\DWG\PLTIC\302 GRADING PLAN ENLARGED AREAS.dwg Plot Date: Jul 12, 2019 - 5:46pm Plotted by: smcdonel

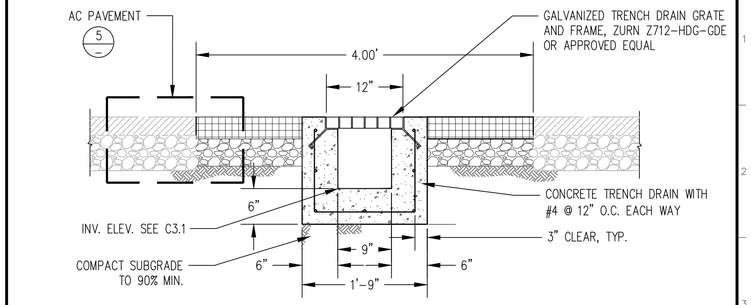


X01_XX01

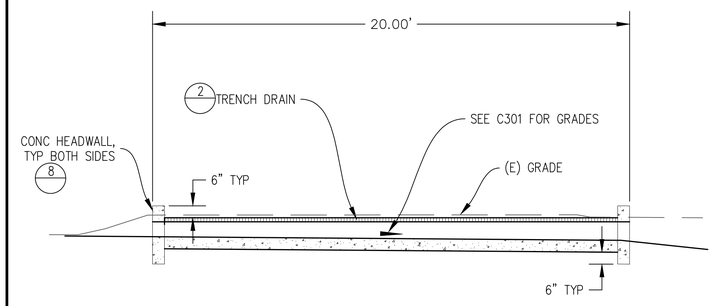
SECTION | 1"=3'



6 CONC. V-GUTTER | NTS



2 12" TRENCH DRAIN | NTS



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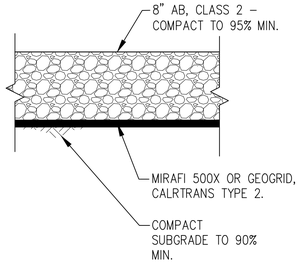
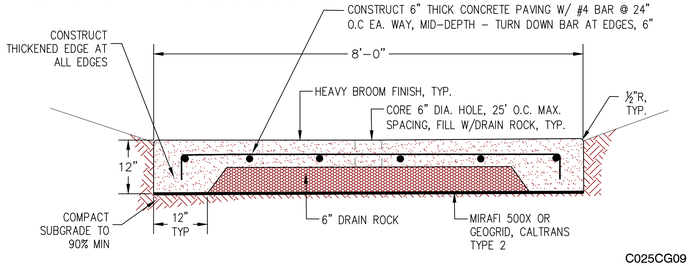


C02_AC02

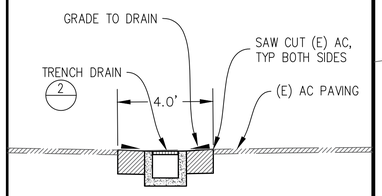
7 GRAVEL ROAD | NTS

NOTE:
1. SEE DETAIL 4 FOR TYPICAL JOINT DETAILS
2. EXPANSION JOINTS AT 50' INTERVAL MAX.
3. CONTRACTION JOINTS AT 10' INTERVAL MAX.
4. SEE GRADING PLAN C3.1 FOR CUT SLOPE REQUIREMENTS.



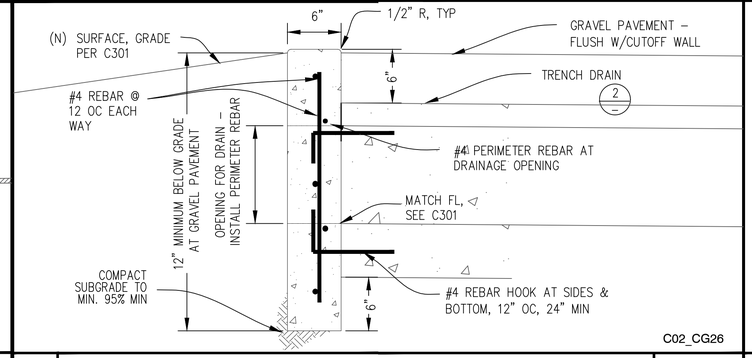
C025CG09

3 REINFORCED CONCRETE PAVING | 3/4"=1'–0"



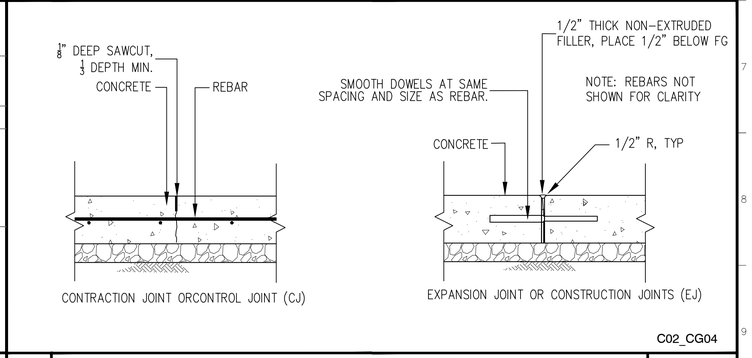
X01_XX01

SECTION | 1"=3'



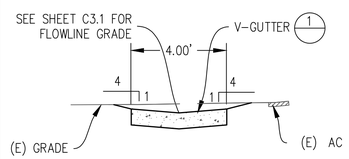
C02_CG26

8 6" CUTOFF WALL / HEADWALL | 1 1/2" = 1'–0"



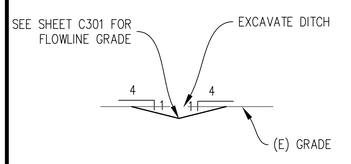
C02_CG04

4 TYPICAL JOINT DETAILS | NTS



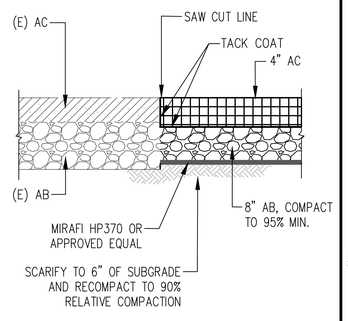
X01_XX01

SECTION | 1"=3'



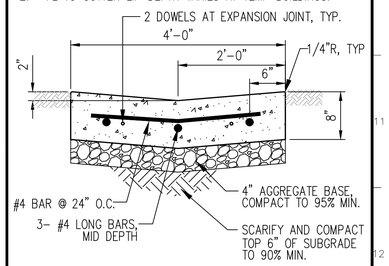
X01_XX01

TYPICAL SECTION | 1"=3'



AC PAVEMENT | NTS

NOTE:
1. SEE DETAIL 4 FOR CONTROL JOINTS. PLACE EXPANSION JOINTS EVERY 50' MAX. INTERVAL AND CONTRACTION JOINTS EVERY 5' MAX. INTERVAL.
2. FL TO GUTTER LIP DEPTH VARIES AT TEMP BUILDINGS.



CONC. V-GUTTER | NTS

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GENERAL SERVICES

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Project Manager: Travis Thrasher
916 375 - 4259 Voice
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Travis.Thrasher@dgs.ca.gov

REGISTERED PROFESSIONAL ENGINEER Scott C. Miller CIVIL STATE OF CALIFORNIA — PROGRESS SET NOT FOR CONSTRUCTION

Issue

No.	Date	Description
1	3/29/19	25% WDs
2	7/10/19	75% WDs

Project
CHP- ACADEMY DRAINAGE CHANNEL IMPROVEMENTS

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YOLO COUNTY

CALIFORNIA HIGHWAY PATROL

Supervisor	Designed	Drawn
E. VELAGIC	S. MCDONELL	S. MCDONELL

DSA App No.
0#-######

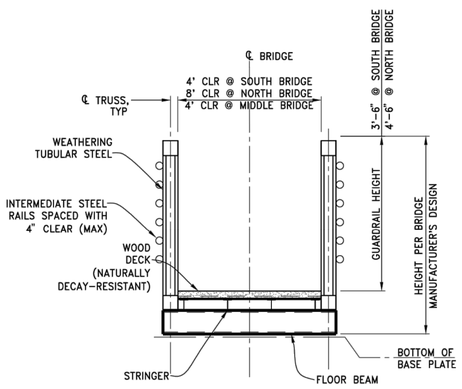
Sheet Title
SITE DETAILS

Project Number
00000000001324

Reference North

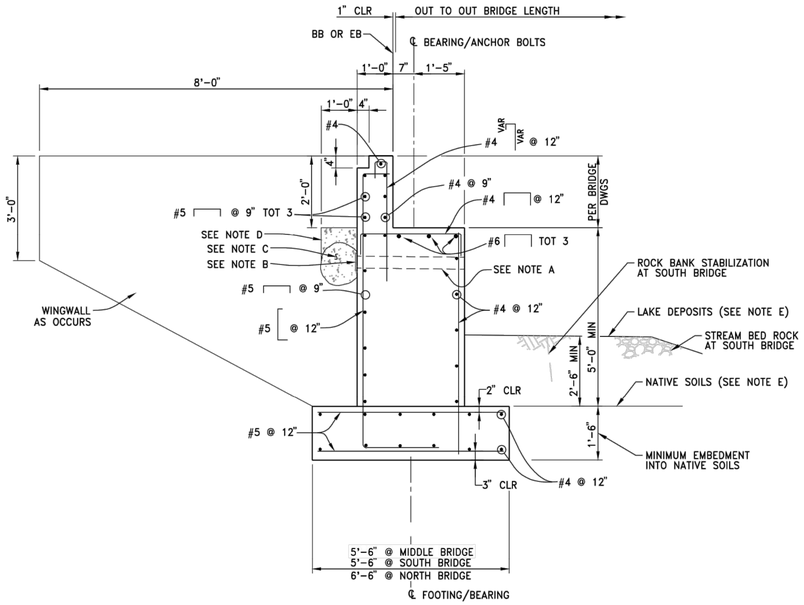
Sheet Scale
AS NOTED

Sheet Number
C501



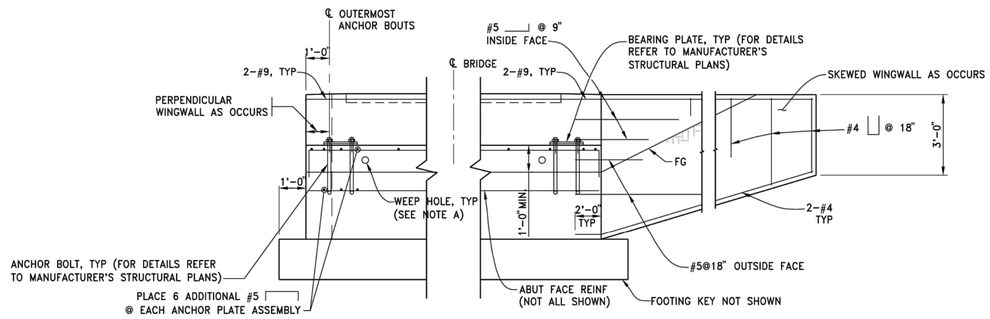
TYPICAL BRIDGE SECTION

NO SCALE



TYPICAL ABUTMENT SECTION

1/2"=1'



NOTES: (SECTION AND ELEVATION)

A. 4"ø DRAINS TOTAL 2. EXPOSED ABUTMENT DRAINS SHALL BE LOCATED 3"± ABOVE FINISHED GRADE.

B. 6" SQUARE ALUMINUM OR GALVANIZED STEEL WIRE ½" MESH HARDWARE CLOTH, MINIMUM WIRE DIAMETER 0.025". ANCHOR FIRMLY TO BACKFACE.

C. ONE CUBIC FOOT PERVIOUS BACKFILL MATERIAL IN A NONWOVEN FILTER FABRIC, SECURELY TIED.

D. PERVIOUS BACKFILL MATERIAL CONTINUOUS BEHIND ABUTMENT.

E. FOR THE PURPOSE OF DETERMINING FOOTING EMBEDMENTS LAKE DEPOSITS CONSIST OF SILTY CLAY (DARK BROWN TO BLACK WITH ORGANICS) AND NATIVE SOILS CONSIST OF UNDISTURBED CLAYEY SAND AND SANDY CLAY (GRAY TO OLIVE BROWN). DESCRIPTIONS OF DISTINCT SOIL LAYERS IS PER FOUNDATION LETTER DATED APRIL 15, 2009 PREPARED BY WOOD RODGERS. DETERMINATION OF BOUNDARY BETWEEN SOIL LAYERS TO ESTABLISH FOOTING EMBEDMENTS NEEDS TO BE MADE IN THE FIELD BY THE PROJECT INSPECTOR IN CONSULTAION WITH THE SOILS ENGINEER.

TYPICAL ABUTMENT ELEVATION

35/D-8 **ABUTMENT**

3/8"=1'0"

DESIGN CRITERIA

CONCRETE: f'c = 3600 PSI

REINFORCEMENT: fy = 60 KSI

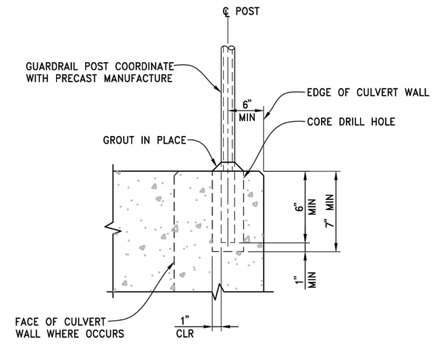
SOIL: ALLOWABLE SOIL PRESSURE (SERVICE) = X.X KSF
DENSITY = XXX LB/CFT
EQUIVALENT FLUID PRESSURE = XX PSF/FT
PASSIVE PRESSURE = XXX PSF/FT
SLIDING FRICTION = X.XX

LOADING: DEAD LOAD (DECK AND STRUCTURE) = ACTUAL WEIGHT

LIVE LOAD:
A) UNIFORM PEDESTRIAN LIVE LOAD
1. BASIC -- 90 PSF
2. TRUSS --- REDUCED PER AASHTO
B) VEHICLE ----- NONE
WIND LOAD ----- 35 PSF
EARTHQUAKE LOAD
S_S = X.XX S_1 = X.XX
F_A = X.X F_V = X.X
SITE CLASS = ?

APPLICABLE DESIGN CODES:
2016 CBC: CALIFORNIA BUILDING CODE
2015 IBC: INTERNATIONAL BUILDING CODE
2010 ASCE 7: MINIMUM DESIGN LOADS
2013 AASHTO BDS
2010 AISC 360: STRUCTURAL STEEL
2014 ACI 318: REINFORCED CONCRETE
2015 AFP&A NDS: WOOD

APPLICABLE CONSTRUCTION SPECIFICATIONS:
PLACER COUNTY GENERAL SPECIFICATIONS (PUBLIC WORKS)



RAILING AT CULVERT

NO SCALE

OFFICE OF THE STATE FIRE MARSHAL
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Travis.Thrasher@dgs.ca.gov

Issue		
No.	Date	Description
1	3/29/19	25% WDs
2	7/10/19	75% WDs

Project
CHP- ACADEMY DRAINAGE CHANNEL IMPROVEMENTS

3500 REED AVENUE
WEST SACRAMENTO, CA 95605
YOLO COUNTY

CALIFORNIA HIGHWAY PATROL

Supervisor	Designed	Drawn
GVC	CLM	JFM

DSA App No.
0#-######

Sheet Title
BRIDGE DETAILS

Project Number
000000000001324

Reference North

Sheet Scale
AS NOTED

Sheet Number
C502

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