

COLLEGE OF SAN MATEO

HILLSDALE PARKING LOTS REPAIR AND IMPROVEMENT PROJECT

SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT

PROJECT TEAM

GENERAL CONTRACTOR:

PANKOW SPECIAL PROJECTS
1111 BROADWAY, SUITE 200
OAKLAND, CA 94607
CONTACT: JERRY NELSON
(510) 893-8337

CIVIL ENGINEER:

CSW/STUBER-STROEH ENGINEERING GROUP, INC.
45 LEVERONI CT.
NOVATO, CA 94949
CONTACT: MIKE HAMMERSTROM
(415) 883-9850

CIVIL AND SITE WORK CONTRACTOR:

McGUIRE AND HESTER
9009 RAILROAD AVENUE
OAKLAND, CA 94603
CONTACT: CHARLES THOME
(510) 632-7676

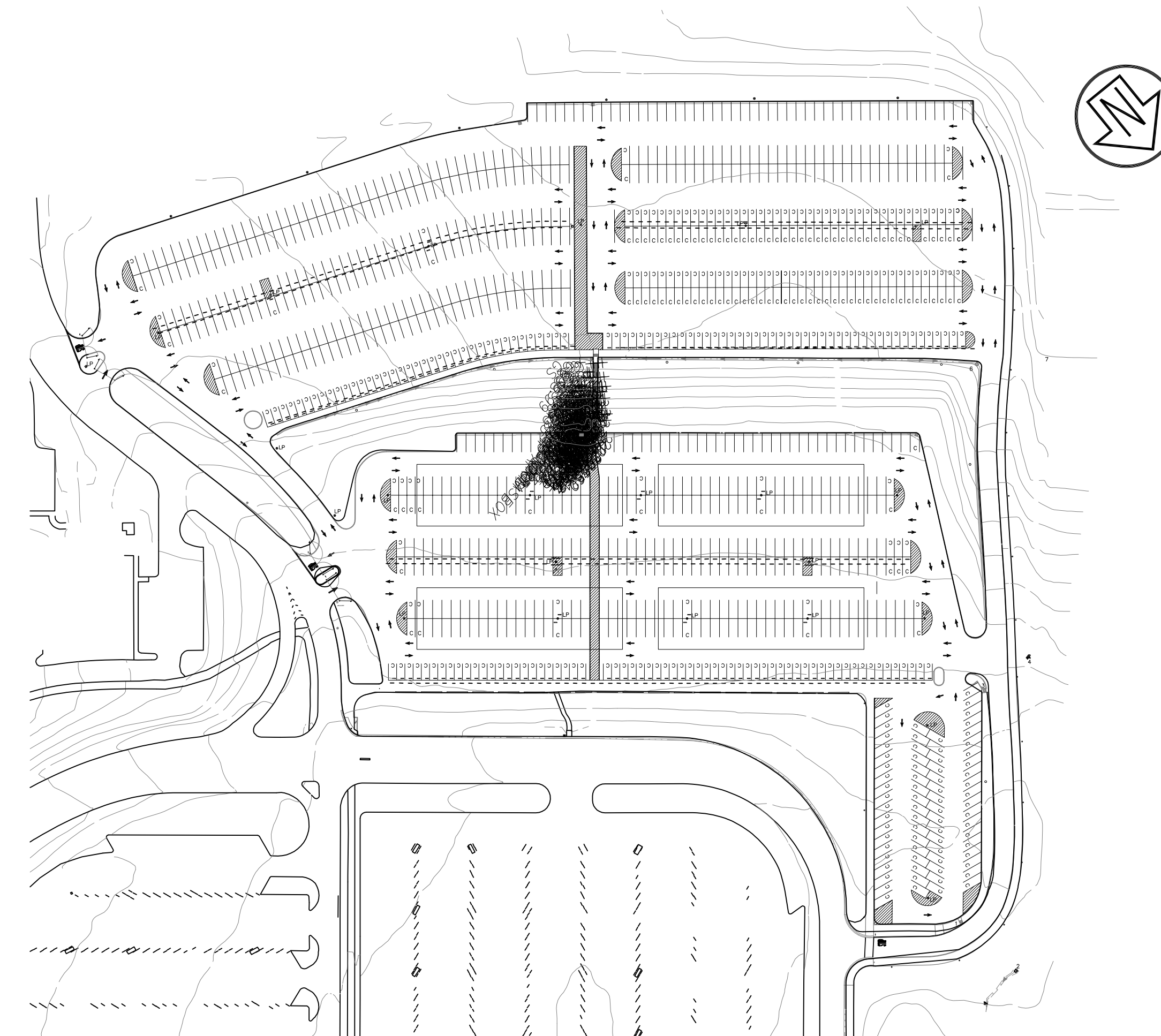
ELECTRICAL CONTRACTOR:

CUPERTINO ELECTRIC, INC.
1740 CESAR CHAVEZ
SAN FRANCISCO, CA 94124
CONTACT: FRED GARDNER
(415) 970-3400

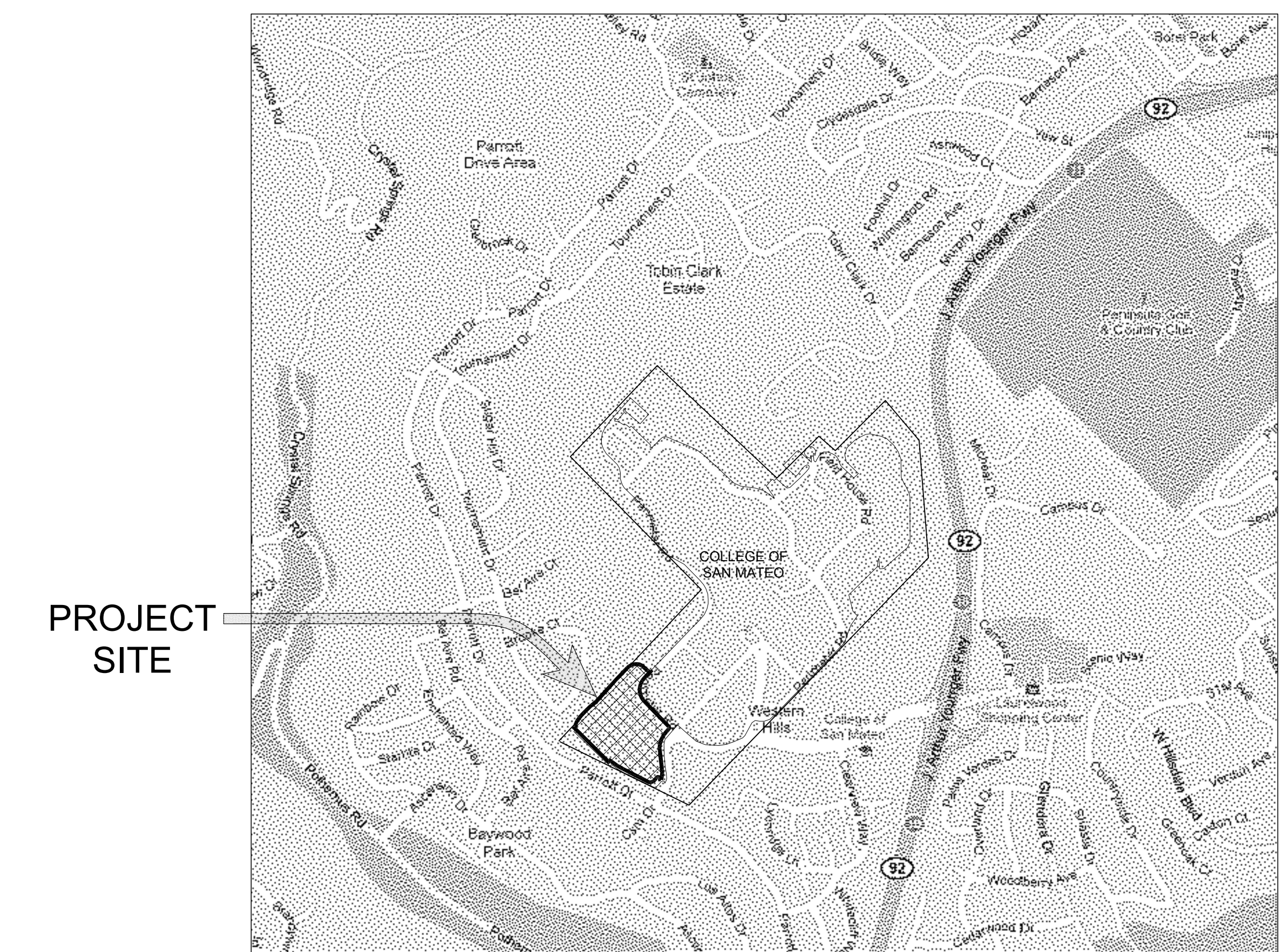
CERTIFIED ARBORIST:

ARBORWELL
2337 AMERICAN AVENUE
HAYWARD, CA 94545
CONTACT: NEIL WOOLNER
(510) 881-5208

GENERAL SITE MAP



VICINITY MAP



LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED
BOLLARDS	•	STORM DRAIN	—
POWER POLE	○		
LIGHT POLE	○		
METAL GATE	—		
SIGN	—		
STORM DRAIN DROP INLET	—		
TICKET DISPENSER WITH BOLLARDS	—		

ABBREVIATIONS

AB	AGGREGATE BASE	PVC	POLYVINYL CHLORIDE
A.C.	ASPHALT CONCRETE	RCP	REINFORCED CONCRETE PIPE
ELEV.	ELEVATION	RWQCB	REGIONAL WATER QUALITY CONTROL BOARD
EP	EDGE OF PAVEMENT	SD	STORM DRAIN
EX	EXISTING	SM	SIMILAR
LF	LINEAR FEET	SF	SQUARE FEET
LP	LIGHT POLE	TG	TOP OF GRATE
(N)	NEW	TYP	TYPICAL
OF/CI	OWNER FURNISH CONTRACTOR INSTALL		

BASIS OF TOPOGRAPHY

THE TOPOGRAPHY FOR THIS PROJECT IS BASED ON THE ELEVATION OF POINT 181 FOUND ON THE DRAWING TITLED COLLEGE OF SAN MATEO BKF CONTROL PLOT, PREPARED BY BKF ENGINEERS, 255 SHORELINE DR., SUITE 200 REDWOOD CITY, CA 94065. POINT 181 IS A NAIL SET IN THE SIDEWALK IN THE ISLAND AT THE INTERSECTION OF CSM DRIVE AND HILLSDALE BOULEVARD. THE ELEVATION OF POINT 181 IS 577.98

BENCHMARKS

AS INDICATED ON DRAWING C1

BASIS OF BEARINGS

THE BEARING OF NORTH 44°33'56" EAST ALONG THE NORTHWESTERLY LINE OF PARCEL "A", AS SHOWN ON THE MAP OF COLLEGE PORTAL PROPERTIES UNIT NO. 1, FILED ON APRIL 5, 1968 IN BOOK 67 OF MAPS, AT PAGES 32 AND 33, WAS USED AS THE BASIS OF BEARINGS FOR THIS SURVEY.

GENERAL NOTES

- ALL WORK SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF UNIFORM CONSTRUCTION STANDARDS, CITIES AND COUNTY OF SAN MATEO, STANDARD SPECIFICATIONS FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, AND UTILITY COMPANIES STANDARD PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL HOLD HARMLESS THE COLLEGE OF SAN MATEO AND THEIR AUTHORIZED REPRESENTATIVES FROM ALL LIABILITIES AND DAMAGES RESULTING FROM HIS CONSTRUCTION OPERATIONS.
- IT SHALL BE THE PAVING CONTRACTOR'S RESPONSIBILITY TO RESTORE STREET AND SIDEWALK SUBGRADES DISTURBED DURING UNDERGROUND UTILITY CONSTRUCTION. ALL EXISTING STREET IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED IN CONFORMANCE WITH UCS STANDARDS AND TO THE SATISFACTION OF THE COLLEGE OF SAN MATEO.
- UTILITIES AS SHOWN CONFORM WITH ALL PRESENT INFORMATION; HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND DEPTHS OF ALL UTILITIES. ANY CONFLICTS DISCOVERED SHALL BE REPORTED IMMEDIATELY TO THE CIVIL ENGINEER.
- ALL SIGNS ARE TO REMAIN OR BE RELOCATED. SIGNS DAMAGED DURING CONSTRUCTION ACTIVITIES OR FROM VANDALISM OR IN POOR CONDITION SHALL BE REPLACED IN KIND.
- GRADING WORK SHALL INCLUDE SAW-CUTTING, AC EXCAVATION, SUBGRADE EXCAVATION, HAULING AND REMOVAL OF EXCESS SPOILS, IMPORT, PLACEMENT AND COMPACTION OF SUBGRADES AS REQUIRED.
- THE FINAL AC PAVEMENT SURFACE SHALL BE FREE OF GAUGES, PATCHES, OR OTHER DEFECTS TO THE SATISFACTION OF THE SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT.
- TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF "MANUAL OF TRAFFIC CONTROLS" PUBLISHED BY THE CALIFORNIA DEPARTMENT OF TRANSPORTATION.
- REMOVED ASPHALT CONCRETE AND AGGREGATE BASE MATERIAL SHALL BE RECYCLED FOR RE-USE.
- OUTDOOR NOISE-GENERATING CONSTRUCTION ACTIVITIES (INCLUDING BUT NOT LIMITED TO GRADING, TRENCHING, CONCRETE PLACEMENT, SAWING AND HAMMERING) SHALL BE LIMITED TO THE HOURS BETWEEN 8AM. AND 5PM. MONDAY THROUGH FRIDAY.
- CURBS DAMAGED DURING CONSTRUCTION ACTIVITIES SHALL BE REMOVED TO NEAREST EXPANSION JOINT AND REPLACED IN KIND TO ITS ORIGINAL ELEVATION AND GRADE.
- ALL STREETS SHALL BE SWEEPED AND KEPT CLEAN AT THE END OF EACH DAY AND SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE REGIONAL WATER QUALITY CONTROL BOARD FOR THE DURATION OF THE PROJECT WORK.
- THE PAVING CONTRACTOR WILL AVOID OVERFILLING TRUCKS TO MINIMIZE SPILLAGE ONTO PUBLIC ROADWAYS. ANY SPILLAGE SHALL BE PROMPTLY CLEANED UP BY THE CONTRACTOR.

SCOPE OF WORK

- REMOVE TWO SETS OF CONCRETE STAIRS
- RECONSTRUCT 1 CONCRETE STAIR AT LOWER PARKING LOT
- REMOVE AND REPLACE 3 STORM DRAIN LINES
- REMOVE 24 RAISED ISLANDS IN PARKING LOTS
- CONSTRUCT 1 RAISED ISLAND
- INSTALL NEW METAL GATES
- TRENCHING AND BACKFILLING
- INSTALL NEW LIGHT POLES AND FIXTURES
- DIG OUT REPAIRS IN PARKING LOTS
- INSTALL ASPHALT CONCRETE OVERLAY AND PAVING REINFORCEMENT FABRIC OVER EXISTING/REPAIRED ASPHALT CONCRETE IN PARKING LOTS
- INSTALL CAPE SEAL OVER EXISTING/REPAIRED ASPHALT CONCRETE IN PARKING LOTS
- DIG OUT REPLACEMENT OF EXISTING NORTH ROAD AND AC SIDEWALK
- DIG OUT REPLACEMENT OF EXISTING AC SIDEWALK AT SOUTH SIDE OF PARKING LOTS
- REPAIRS TO CONCRETE CURBS, GUTTERS, AND DRAINAGE DITCHES
- REPLACE CONCRETE V-DITCH
- LANDSCAPE WORK: TREE TRIMMING AND REMOVAL, INSTALLATION OF ROOT BARRIERS, PLANTING
- INSTALL STRIPING AND PAVEMENT MARKINGS

BUILDING CODE

2010 CALIFORNIA BUILDING CODE

DESIGN CRITERIA

SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT DESIGN STANDARDS.

CITY OF SAN MATEO MUNICIPAL CODE

NORTH ROAD PAVING DESIGN - TRAFFIC INDEX (TI) = 5 20 YEAR DESIGN LIFE

UPPER PARKING LOTS - TRAFFIC INDEX (TI) = 4 FOR DIG OUT REPAIRS 20 YEAR PERFORMANCE LIFE

UPPER PARKING LOTS OVERLAY 20 YEAR PERFORMANCE LIFE

LOWER PARKING LOTS CAPE SEAL 5 YEAR PERFORMANCE LIFE

NOTE: PAVING WILL HAVE TO BE REPLACED AT THE END OF ITS PERFORMANCE LIFE.

SHEET INDEX

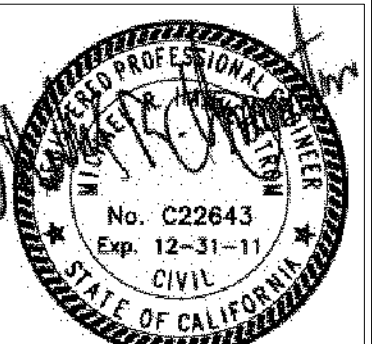
C0	Cover Sheet
C1	Demolition and Repair Plan and Details
C2	Striping and Improvement Plan
S1	Structural Notes Plans and Details
EC1	Erosion and Sediment Control Plan
EC2	Erosion Control Details
E1	Electrical schedule/Site Plan/ Details
E2	Electrical Title 24 Compliance
E3	Electrical Site Plan

Rev	Date	Description	Designed	Drawn	Checked
A	11/22/10	50% REVIEW SUBMITTAL	MRH	MRH	MRH
B	12/10/10	50% REVIEW SUBMITTAL	MRH	MRH	MRH
D	11/13/11	100% FINAL REVIEW	MRH	MRH	MRH
E	11/18/11	100% FINAL REVIEW	MRH	MRH	MRH
F	11/28/11	100% CONSTRUCTION DOCUMENTS	MRH	MRH	MRH
G	12/01/11	100% CONSTRUCTION DOCUMENTS	MRH	MRH	MRH
H	12/13/11	RECORD DRAWINGS	END	END	JJO

COLLEGE OF SAN MATEO - HILLSDALE PARKING LOTS REPAIR AND IMPROVEMENT PROJECT
COVER SHEET
SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT

City of
San Mateo
County of
San Mateo
State of
California

Prepared Under the Direction of:



Scale: AS SHOWN
Date: 12/17/10
File: 4112104
Plan File:

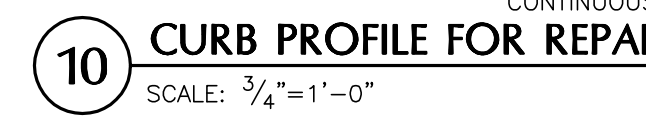
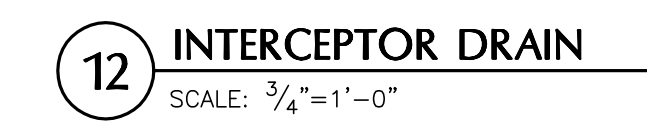
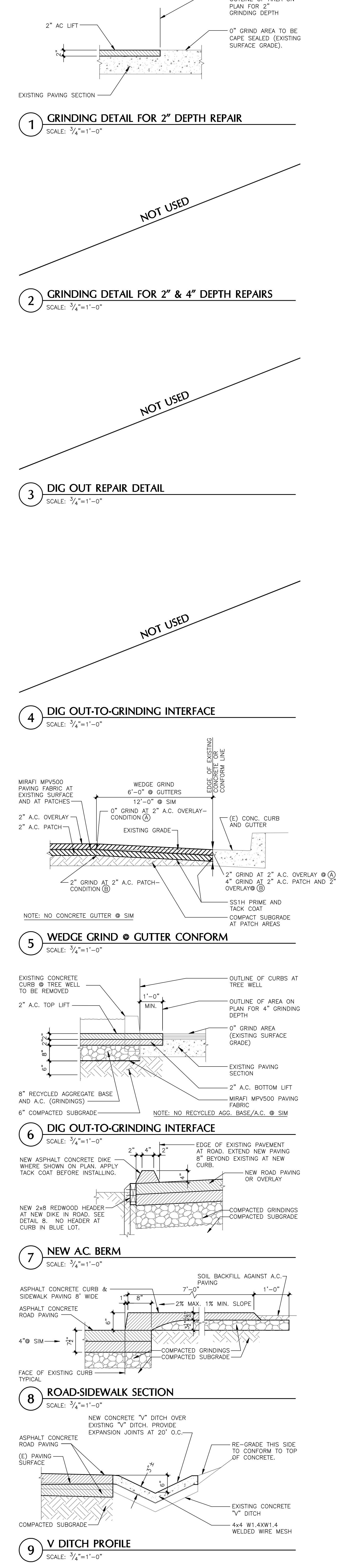
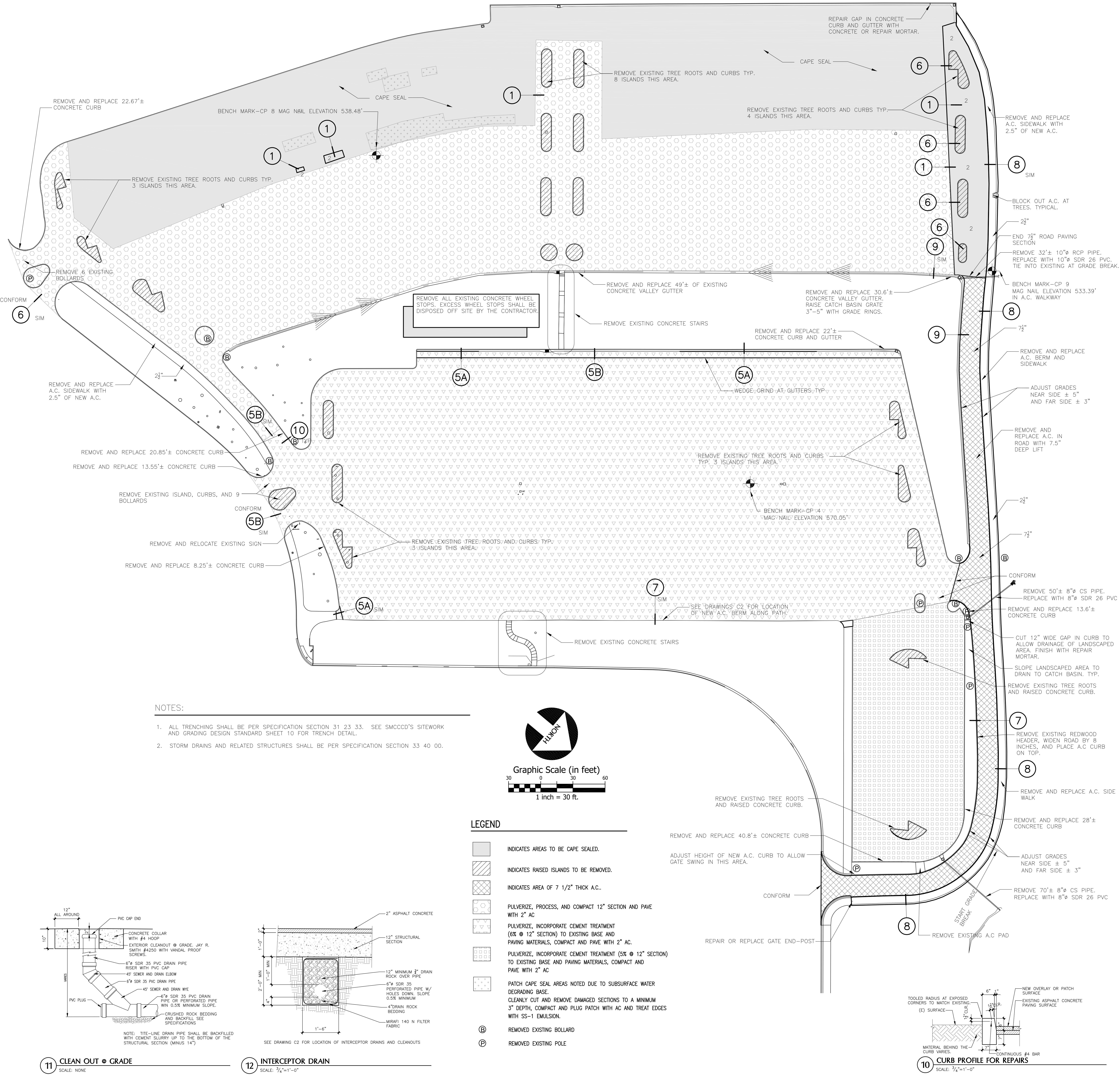
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B	12/10/10	100% REVIEW SUBMITTAL	MARK DOWD
C	12/10/10	100% REVIEW MEETING	MARK DOWD
D	11/30/11	100% FINAL REVIEW	MARK DOWD
E	11/30/11	100% FINAL REVIEW	MARK DOWD
F	12/08/11	100% CONSTRUCTION DOCUMENTS	MARK DOWD
G	12/08/11	100% CONSTRUCTION DOCUMENTS	MARK DOWD
H	12/13/11	RECORDED DRAWINGS	EMAD

COLLEGE OF SAN MATEO - HILLSDALE PARKING LOTS REPAIR AND IMPROVEMENT PROJECT
DEMOLITION AND REPAIR PLAN AND DETAILS
SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT

City of
San Mateo
County of
San Mateo
State of
California

Prepared Under the Direction of

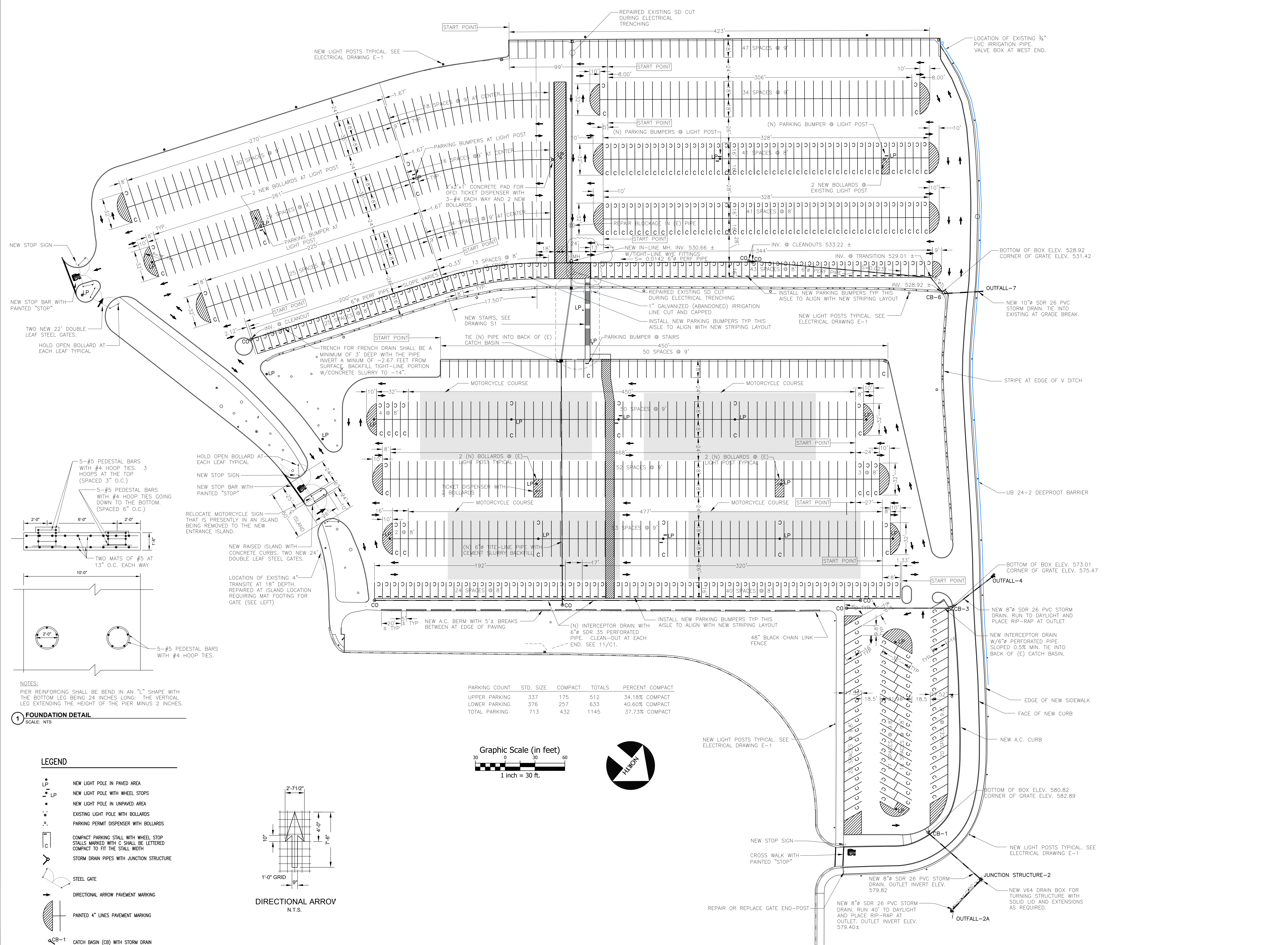
Sheet
C1
Scale: AS SHOWN
Date: 12/17/10
File: 4112104
Plan File:



Rev.	Date	Description	Drawn	Checked
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B	12/10/10	60% REVIEW SUBMITTAL	MRH	MRH
C	11/30/11	70% REVIEW SUBMITTAL	MRH	MRH
D	11/30/11	100% FINAL REVIEW	MRH	MRH
E	11/30/11	100% FINAL REVIEW	MRH	MRH
F	11/30/11	100% FINAL REVIEW	MRH	MRH
G	11/30/11	100% FINAL REVIEW	MRH	MRH
H	12/13/11	ADDED FRENCH DRAIN AT BLUE & YELLOW LOT	MRH	MRH
I	12/13/11	RECORD DRAWINGS	EMD	JOS

COLLEGE OF SAN MATEO - HILLSDALE PARKING LOTS REPAIR AND IMPROVEMENT PROJECT
STRIPING AND IMPROVEMENT PLAN
SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT

City Of San Mateo
County Of San Mateo
State Of California
Prepared Under the Direction of
Sheet C2
Scale: 1"=30'
Date: 12/17/10
File: 4112104
Plan File:



NOTES:
 PIER REINFORCING SHALL BE BEND IN AN "L" SHAPE WITH THE BOTTOM LEG BEING 24 INCHES LONG. THE VERTICAL LEG EXTENDING THE HEIGHT OF THE PIER MINUS 2 INCHES.

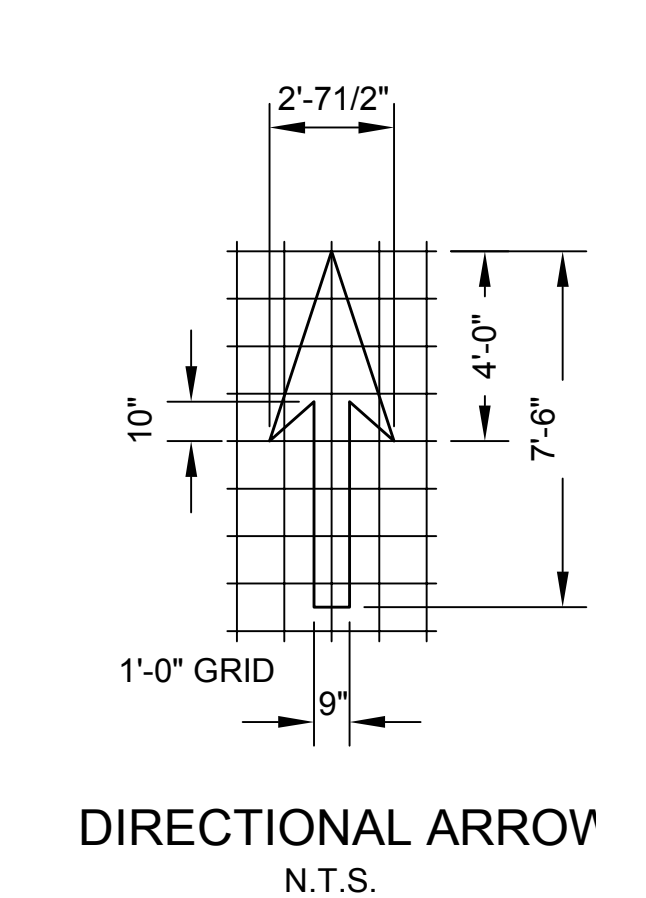
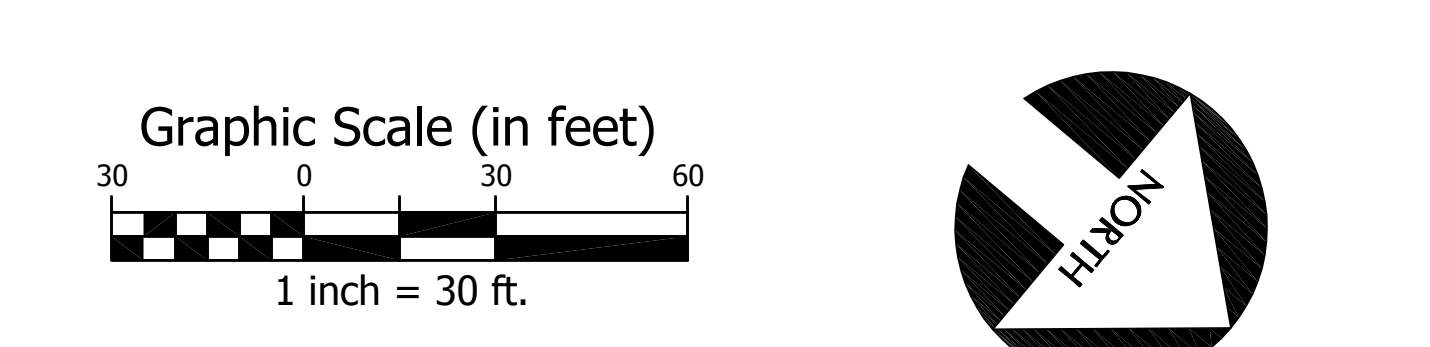
1 FOUNDATION DETAIL
 SCALE: NTS

LEGEND

- LP NEW LIGHT POLE IN PAVED AREA
- LP NEW LIGHT POLE WITH WHEEL STOPS
- NEW LIGHT POLE IN UNPAVED AREA
- EXISTING LIGHT POLE WITH BOLLARDS
- P.P. PARKING PERMIT DISPENSER WITH BOLLARDS
- C COMPACT PARKING STALL WITH WHEEL STOP STALLS MARKED WITH C SHALL BE LETTERED COMPACT TO FIT THE STALL WIDTH
- STORM DRAIN PIPES WITH JUNCTION STRUCTURE
- STEEL GATE
- DIRECTIONAL ARROW PAVEMENT MARKING
- PAINTED 4" LINES PAVEMENT MARKING
- CB-1 CATCH BASIN (CB) WITH STORM DRAIN CB-1 AND OUTFALL-2A ARE FOR REFERENCE
- CO DRAIN PIPE WITH CLEAN OUT

DIRECTIONAL ARROW
 N.T.S.

PARKING COUNT	STD. SIZE	COMPACT	TOTALS	PERCENT COMPACT
UPPER PARKING	337	175	512	34.18% COMPACT
LOWER PARKING	376	257	633	40.60% COMPACT
TOTAL PARKING	713	432	1145	37.73% COMPACT



GENERAL

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS OF THE SITE AND EXISTING CONDITIONS PRIOR TO COMMENCING CONSTRUCTION. IF THERE ARE ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IN WRITING. NO CASE SHALL DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THESE DRAWINGS.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2010 CALIFORNIA BUILDING CODE (C.B.C.).
- ALL DIMENSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
- THE CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITY LINES AND CONNECTIONS INCLUDING SEWER, WATER, GAS, AND ELECTRIC SERVICES BEFORE AND DURING HIS WORK.
- WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
- NO PIPES, DUCTS, SLEEVES, CHASES, ETC., SHALL BE PLACED IN SLABS, BEAMS, OR WALLS UNLESS SPECIFICALLY SHOWN OR NOTED, NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC., UNLESS OTHERWISE NOTED.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO ENSURE THAT ALL PROPERTY IS PROTECTED DURING THIS OPERATION. ANY DAMAGE OR CHANGED CONDITIONS SHALL BE REPAIRED AND RESTORED TO A CONDITION EQUAL TO THAT EXISTING AT THE COMMENCEMENT OF THE WORK. CONTRACTOR SHALL RESTORE ANY DAMAGE AT HIS OWN EXPENSE.

REINFORCED CONCRETE

- MATERIALS:**
- CEMENT SHALL CONFORM TO ASTM C 150, TYPE I OR TYPE II.
 - AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C 33. MAXIMUM SIZE OF AGGREGATE SHALL BE 1".
 - READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C 94. SUBMIT AND OBTAIN APPROVAL OF ALL MIX DESIGNS PRIOR TO PLACING CONCRETE.
 - CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTHS (F_c) OF 3500 PSI AT 28 DAYS. CONCRETE SHALL BE NORMAL WEIGHT.
 - ADMIXTURES SHALL COMPLY WITH ASTM C 494 AND BE OF A TYPE THAT INCREASES THE WORKABILITY OF THE CONCRETE, BUT SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT. CALCIUM CHLORIDE OR ANY OTHER CORROSIVE ADMIXTURE SHALL NOT BE USED.
 - THE MINIMUM SACKS OF CEMENT PER CUBIC YARD OF CONCRETE SHALL BE AS FOLLOWS:
- | F _c | NUMBER OF SACKS | WATER/CEMENT SLUMP |
|----------------|-----------------|--------------------|
| 3500 PSI | (5) SACKS | 0-4.5 |
- 15% OF CEMENT WEIGHT MAY BE POZZOLAN-FLY ASH.

EXECUTION:

- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS," EXCEPT AS MODIFIED BY THESE NOTES.
- DESIGN AND CONSTRUCTION OF FORMWORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED IN ACCORDANCE WITH ACI 347-04.
- FORMS MAY BE REMOVED WHEN FIELD-CURED CYLINDERS ACHIEVE 75% OF THE SPECIFIED 28-DAY STRENGTH, BUT NOT SOONER THAN THE TIMES INDICATED IN ACI 347-04. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE AND PAY FOR THE COSTS OF ANY SUPPLEMENTAL STRENGTH TESTS.
- UNLESS OTHERWISE NOTED, CONCRETE WALKING SURFACES SHALL BE SCAFFLED TO AN EVEN PLANE, FLOATED, STEEL-TROWELED TO A SMOOTH FINISH, AND GIVEN A RIGID BROOKEED FINISH. PROVIDE JOINTS AS INDICATED.
- ALL CONCRETE SHALL BE THOROUGHLY COMPACTED BY A MECHANICAL VIBRATOR DURING THE OPERATION OF PLACING AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND INTO CORNERS OF FORMS.
- CONCRETE NOT IN CONTACT WITH FORMS SHALL BE CURED BY ONE OF THE FOLLOWING METHODS TO PREVENT PREMATURE DRYING OF THE CONCRETE:
 - APPLICATION OF ABSORPTIVE MATS OR FABRIC KEPT CONTINUOUSLY WET
 - APPLICATION OF WATERPROOF SHEET MATERIALS CONFORMING TO ASTM C 173
 - APPLICATION OF A CURING COMPOUND CONFORMING TO ASTM C 309. THE COMPOUND SHALL BE APPLIED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER IMMEDIATELY AFTER ANY WATER SHEN WHICH MAY DEVELOP AFTER FINISHING HAS DISAPPEARED FROM THE CONCRETE SURFACE. IT SHALL NOT BE USED ON ANY SURFACE AGAINST WHICH ADDITIONAL CONCRETE OR OTHER MATERIAL IS TO BE BONDED UNLESS IT IS PROVEN THAT THE CURING COMPOUND WILL NOT PREVENT BOND, OR UNLESS POSITIVE MEASURES ARE TAKEN TO REMOVE IT COMPLETELY FROM AREAS TO RECEIVE BONDED APPLICATIONS.

REINFORCING STEEL

- MATERIALS:**
- BAR REINFORCEMENT SHALL BE ASTM A 615, GRADE 60, UNLESS OTHERWISE NOTED.
- EXECUTION:**
- REINFORCING DETAILING, BENDING, AND PLACING SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE'S "MANUAL OF STANDARD PRACTICE", LATEST EDITION.
 - REINFORCING STEEL SHALL BE PROVIDED WITH THE FOLLOWING AMOUNTS OF COVER FOR CAST-IN-PLACE CONCRETE:
 - CONCRETE DEPOSITED AGAINST EARTH 3"
 - CONCRETE SURFACE (FORMED) EXPOSED TO EARTH OR WEATHER: #5 BAR AND SMALLER 1 1/2"
 - ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, AND INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE OR GROUT.
 - LAP SPLICES OF REINFORCING BARS IN CONCRETE SHALL BE CLASS B TENSION SPLICES AS DEFINED IN ACI 318-05 UNLESS OTHERWISE NOTED. LAP SPLICES OF REINFORCING BARS IN MASONRY SHALL BE 40-BAR DIAMETERS OR 18" MINIMUM.

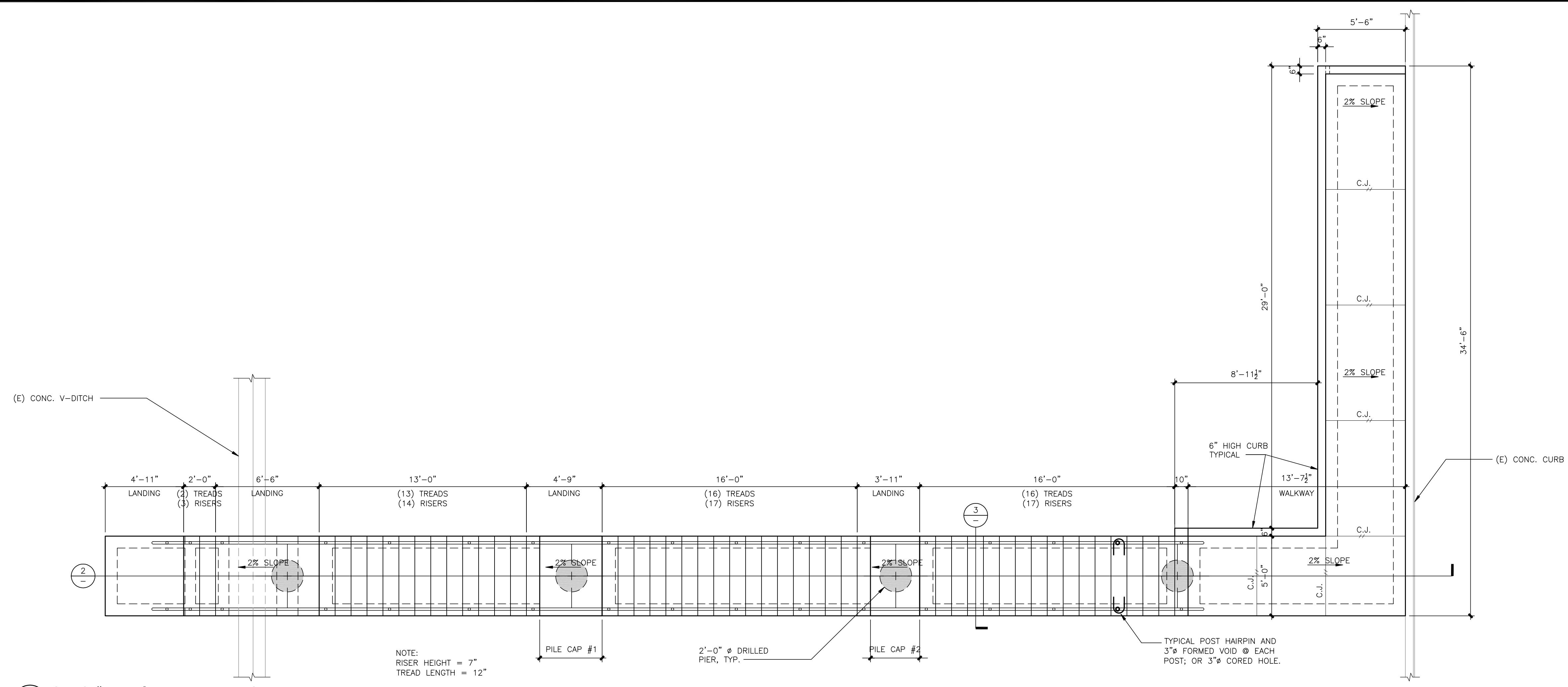
REINFORCING BAR LAP SPLICE AND DEVELOPMENT LENGTHS IN INCHES (F_y = 60 ksi) NORMAL WEIGHT CONCRETE

F _c = 3,500 psi			
BAR SIZE	DEVELOPMENT LENGTHS	LAP SPLICES	
#3	16"	16"	20"
#4	21"	11"	22"
#5	26"	13"	33"
#6	31"	16"	40"
#7	45"	18"	56"
#8	51"	21"	66"
#9	58"	23"	75"
#10	64"	26"	83"
#11	70"	28"	91"

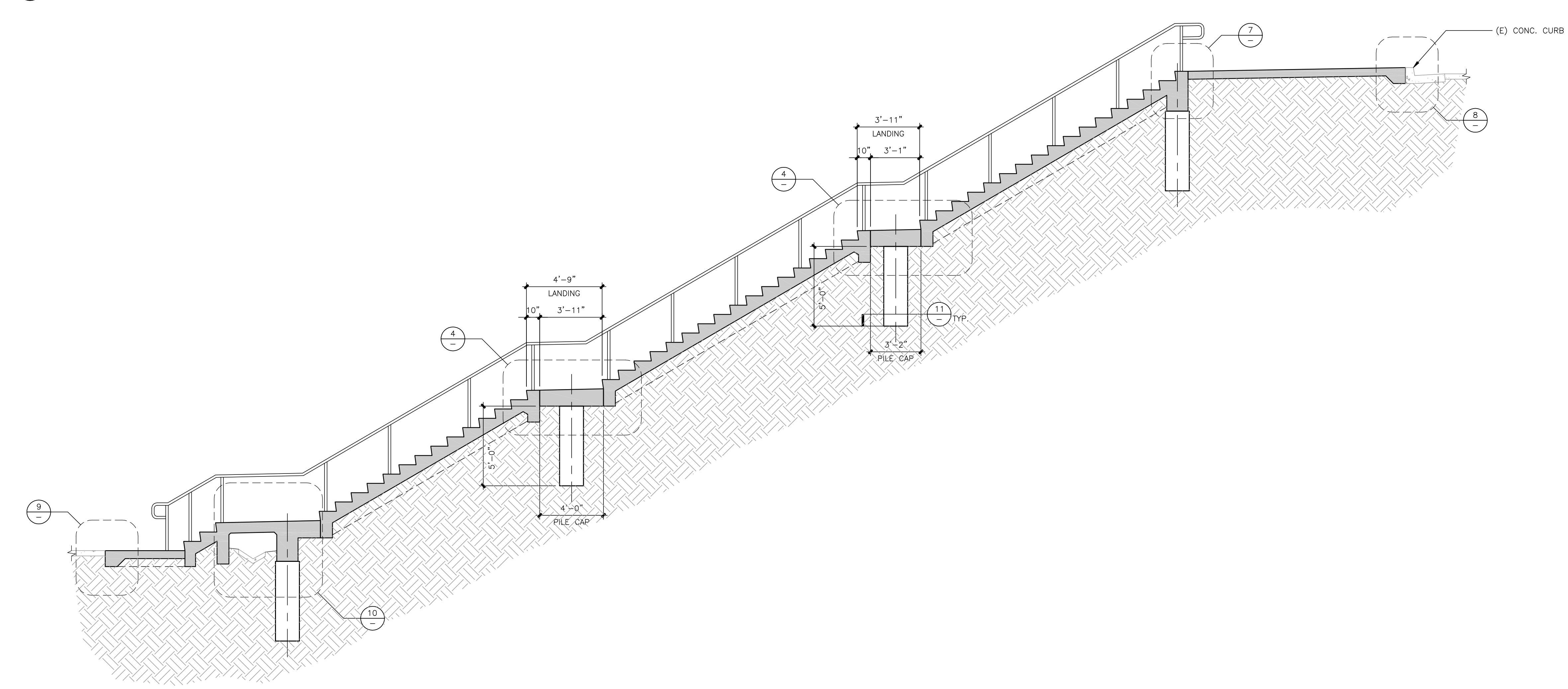
- NOTES:**
- 16" = DEVELOPMENT LENGTH OF DEFORMED BARS IN TENSION.
 - 16c = DEVELOPMENT LENGTH OF DEFORMED BARS IN COMPRESSION.
 - 18" = DEVELOPMENT LENGTH OF STANDARD HOOK IN TENSION.
 - 18 = LAP SPLICE LENGTH.
 - "3d" AND "3s" BASED ON MIN. CONCRETE COVER < φ AND BAR CLEAR SPACING < 2φ. FOR ALL OTHER CASES, INCREASE "3d" AND "3s" BY 50%.
 - FOR EPOXY-COATED BARS, "3d" AND "3s" SHALL BE INCREASED BY 20%.
 - FOR HORIZONTAL BAR PLACED OVER MORE THAN 12" OF FRESH CONCRETE, "3d", AND "3s" SHALL BE INCREASED BY 50%.
 - LAP SPLICES CLASSIFICATION IS CLASS B.

STRUCTURAL STEEL

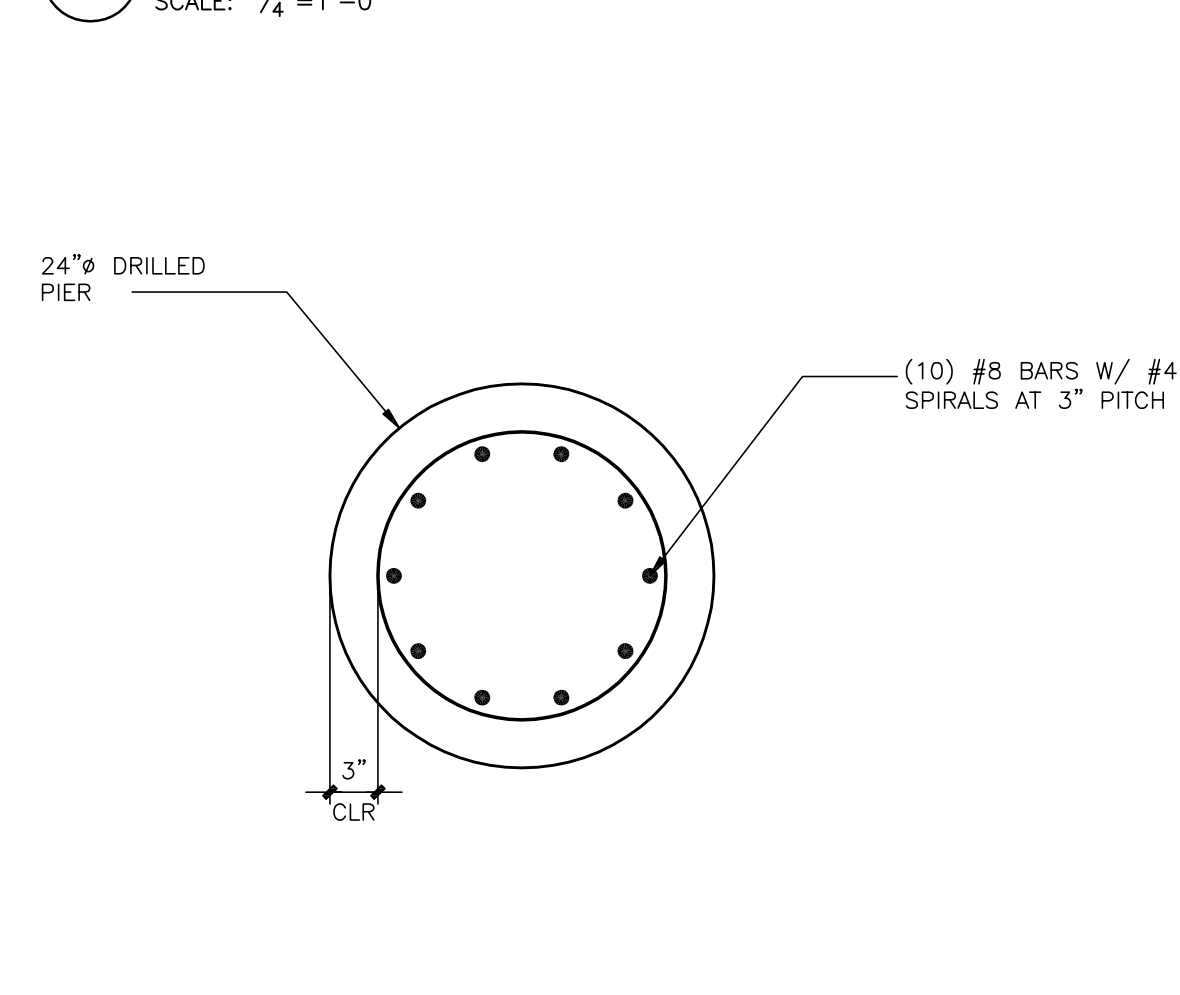
- MATERIALS:**
- STEEL PIPES SHALL CONFORM TO ASTM A 53, GRADE "B".
 - NON-SHRINK GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 7000 PSI PER ASTM C109.
 - ALL WELDING SHALL BE DONE BY THE SHIELDED ARC PROCESS USING APPROVED ELECTRODES PER A.S.S. SPECIFICATION E70XX (LOW HYDROGEN ELECTRODES).
 - FABRICATED METAL EXPOSED TO THE EXTERIOR SHALL BE HOT-DIP GALVANIZED. HANDRAILS SHALL BE SMOOTH WITH NO ROUGH EDGES OR BURRS.
- EXECUTION:**
- ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE A.I.S.C. SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
 - SHOP DRAWINGS OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.
 - WELDING SHALL CONFORM TO THE LATEST EDITION OF AWS D1.1 AND SHALL BE PERFORMED BY CERTIFIED WELDERS QUALIFIED UNDER THE PROCEDURES CONTAINED THEREIN.
 - ALL FULL PENETRATIONS GROOVE WELDS FOR HANDRAILS SHALL BE GROUND FLUSH.



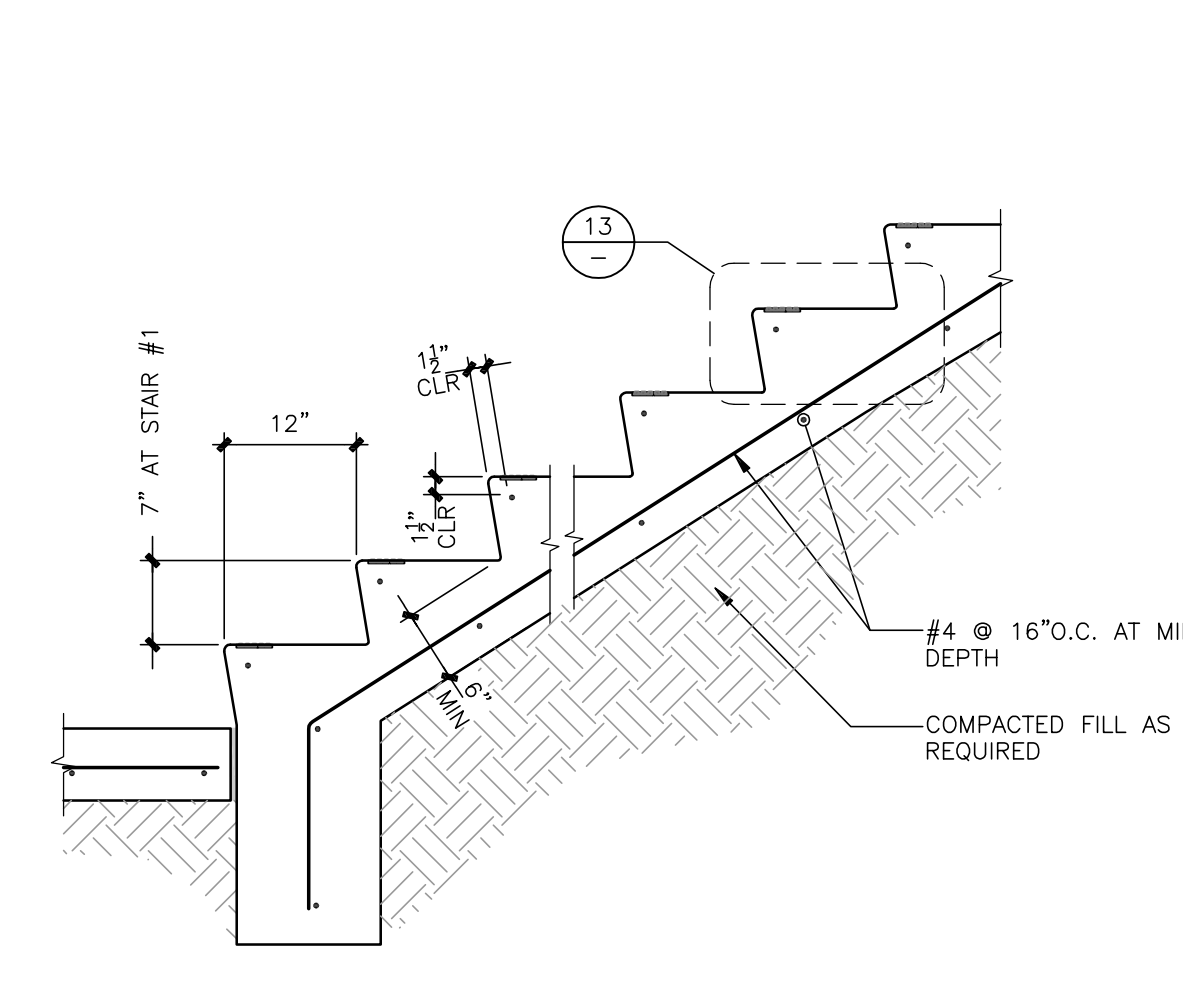
1 STEPS #1 LAYOUT PLAN - PHASE I
SCALE: 1/4"=1'-0"



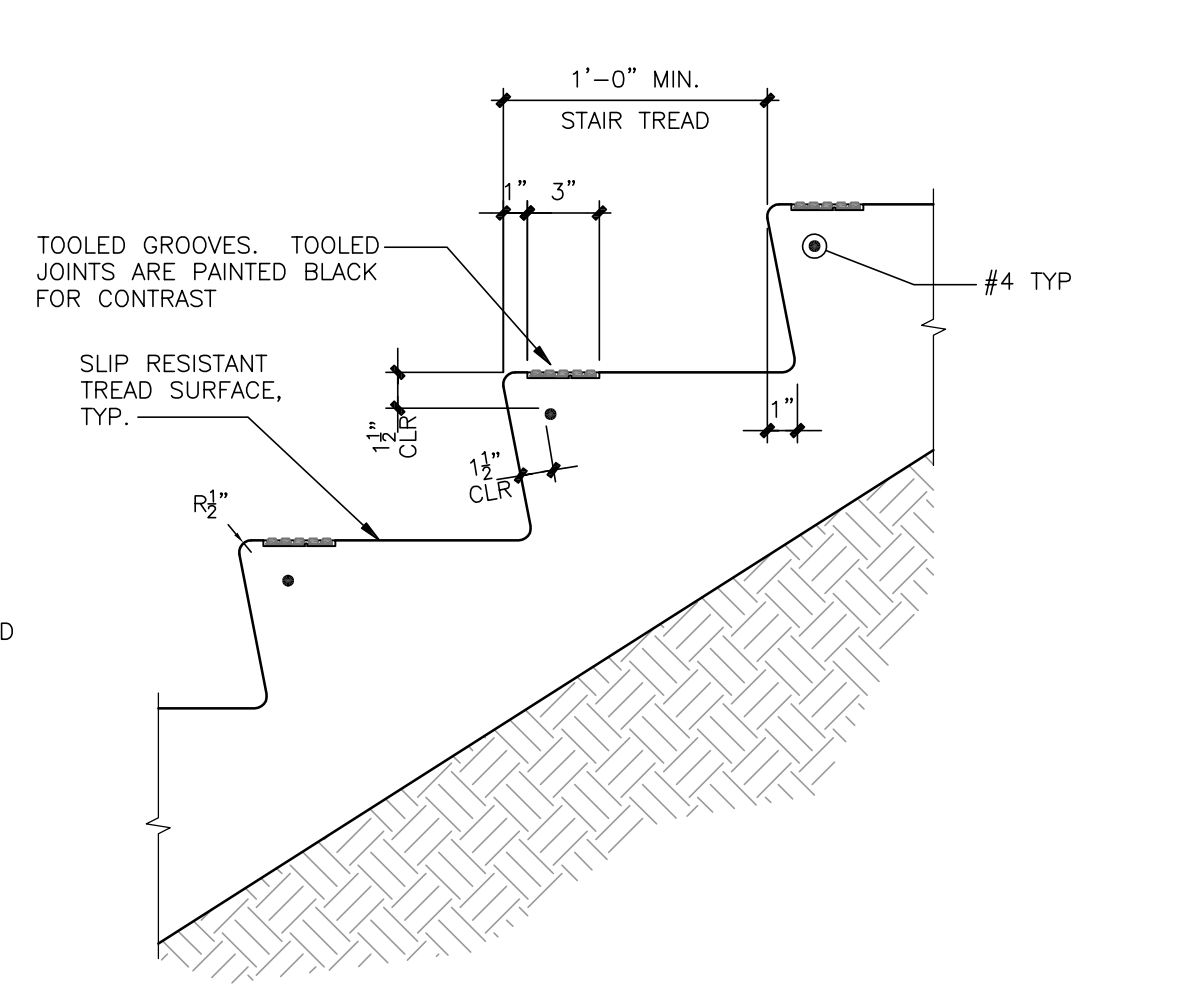
2 STEPS #1 PROFILE - PHASE I
SCALE: 1/4"=1'-0"



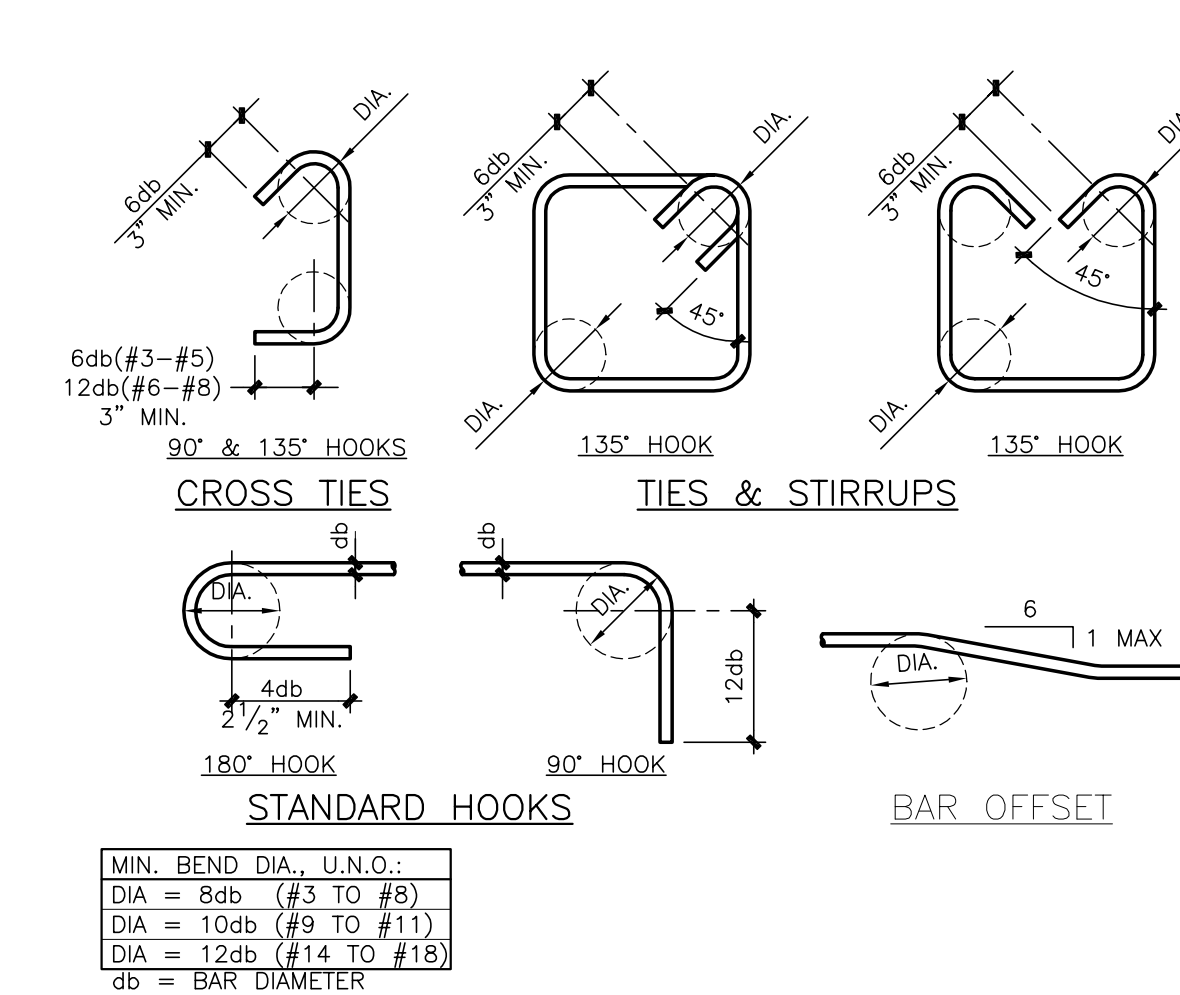
11 DRILLED PIER SECTION
SCALE: 1"=1'-0"



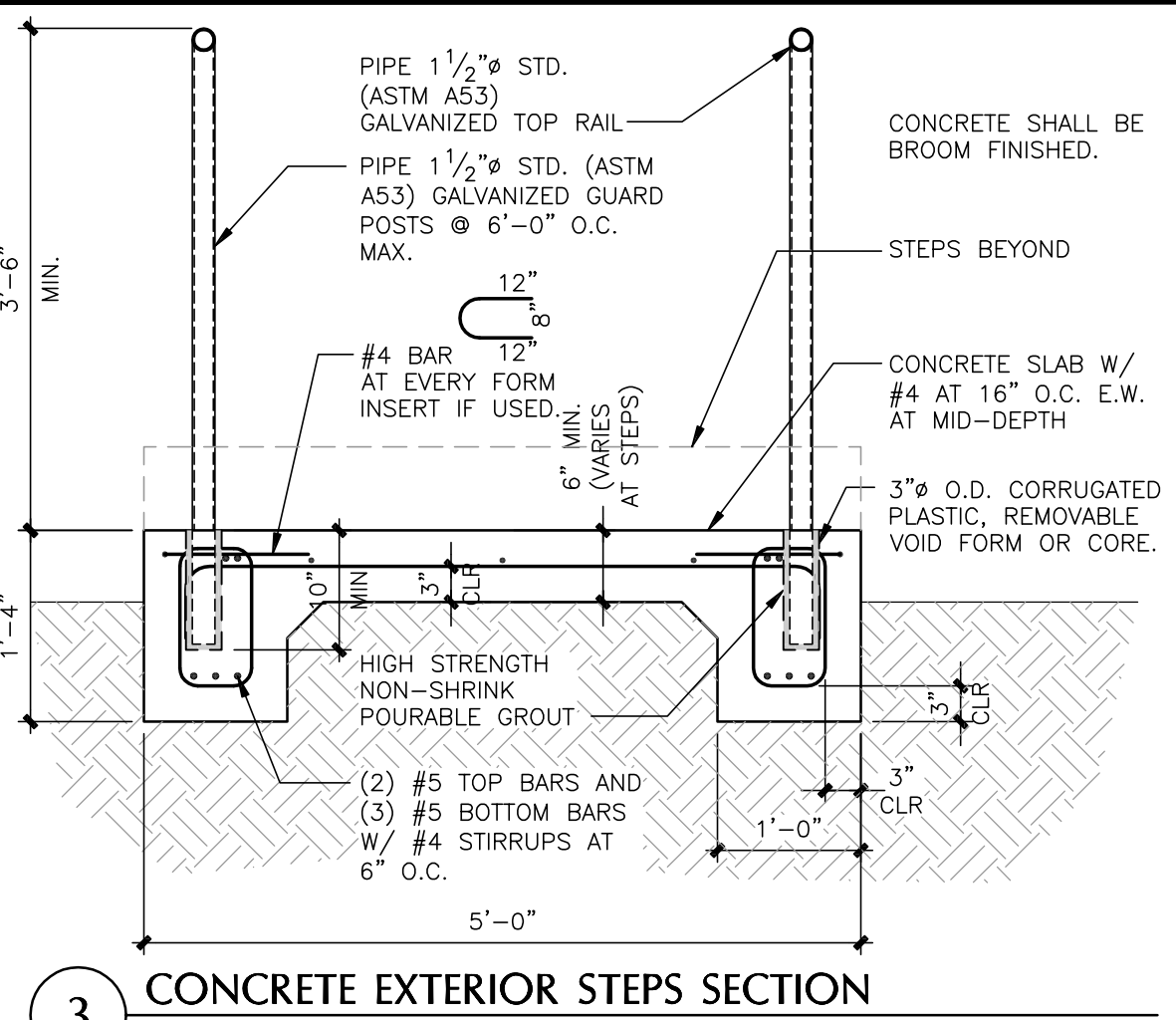
12 TYP. CONCRETE EXTERIOR STEPS SECTION
SCALE: 3/4"=1'-0"



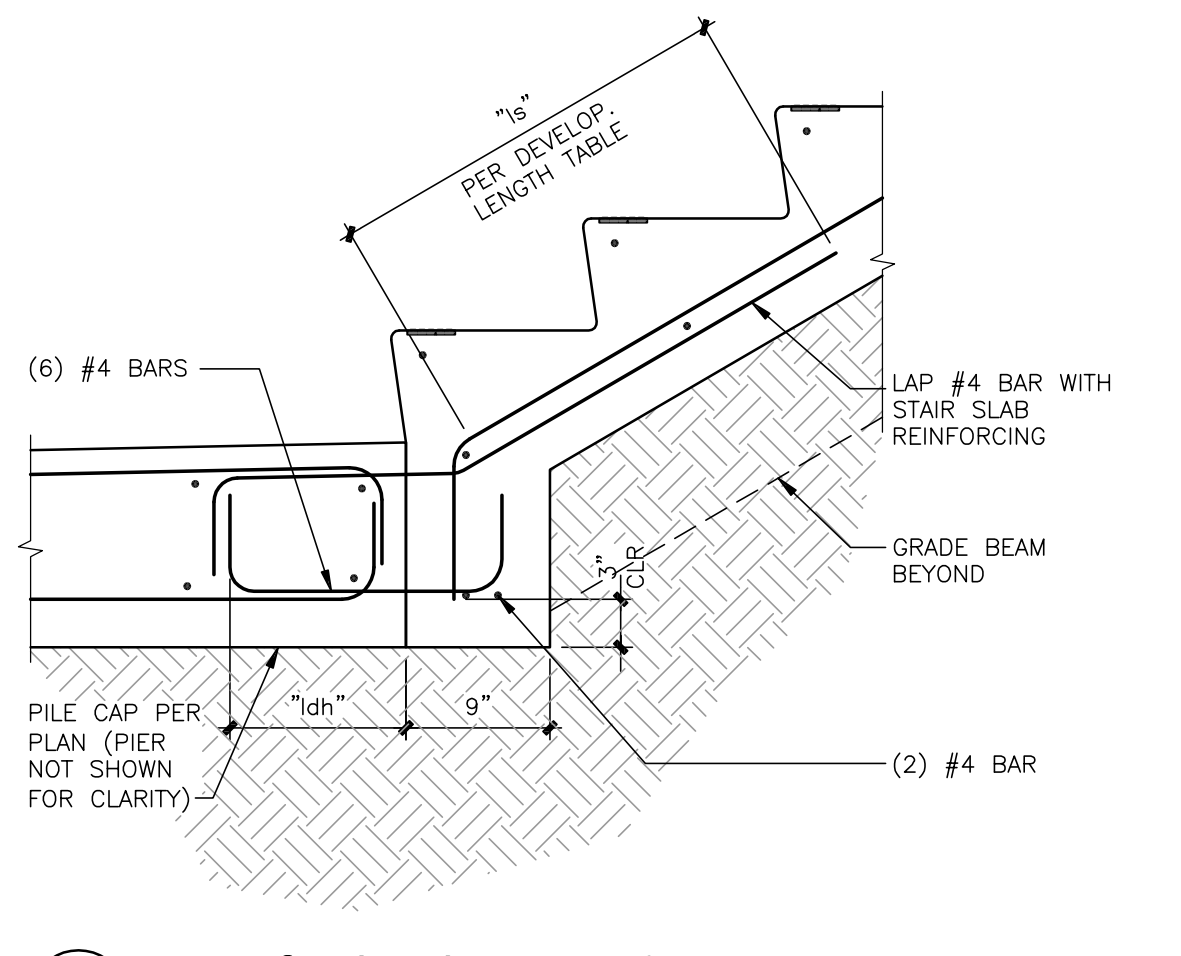
13 STEPS TREADS/RISERS DETAIL
SCALE: 1 1/2"=1'-0"



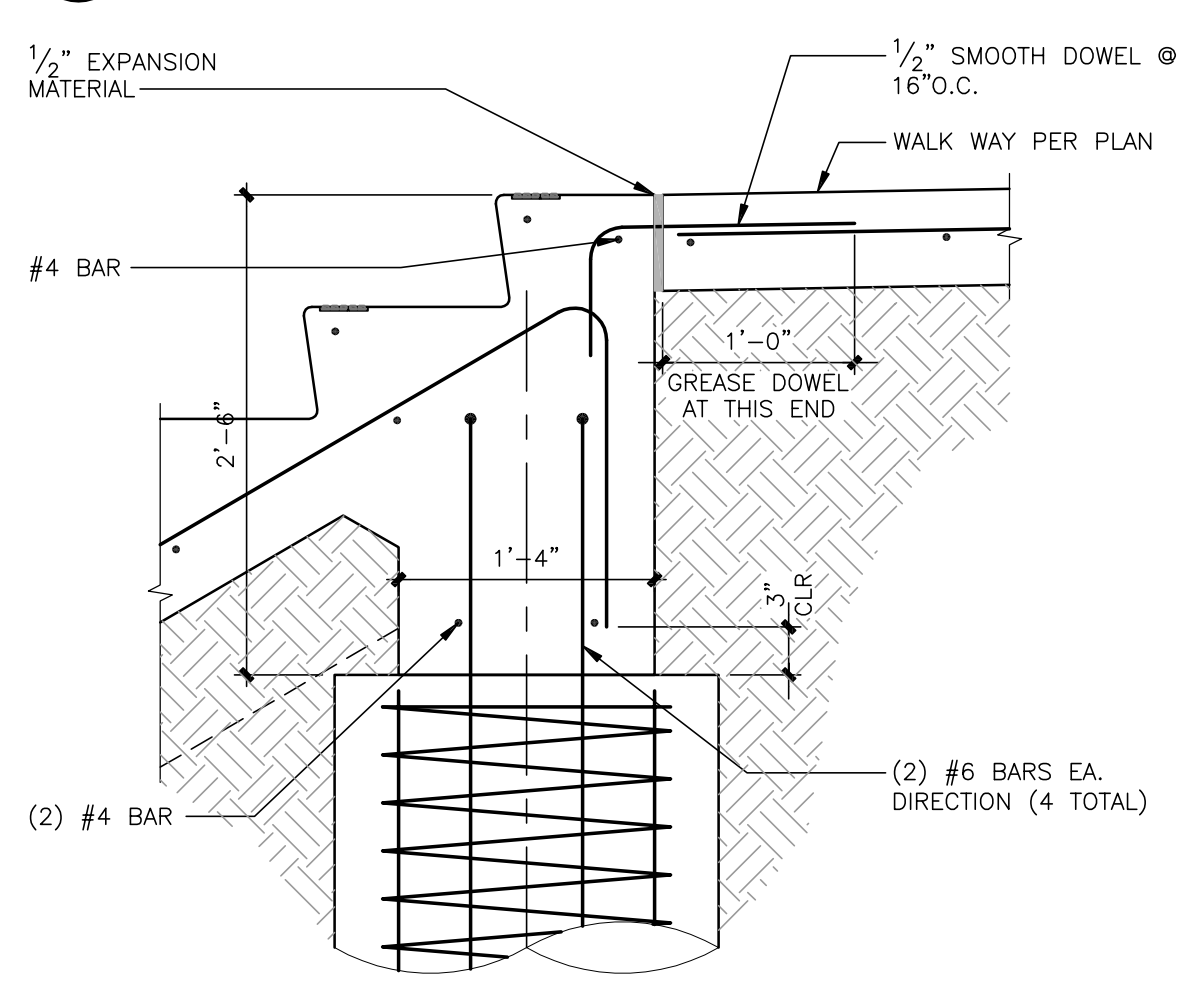
14 TYPICAL REINFORCING STEEL HOOKS AND BENDS
SCALE: 3/4"=1'-0"



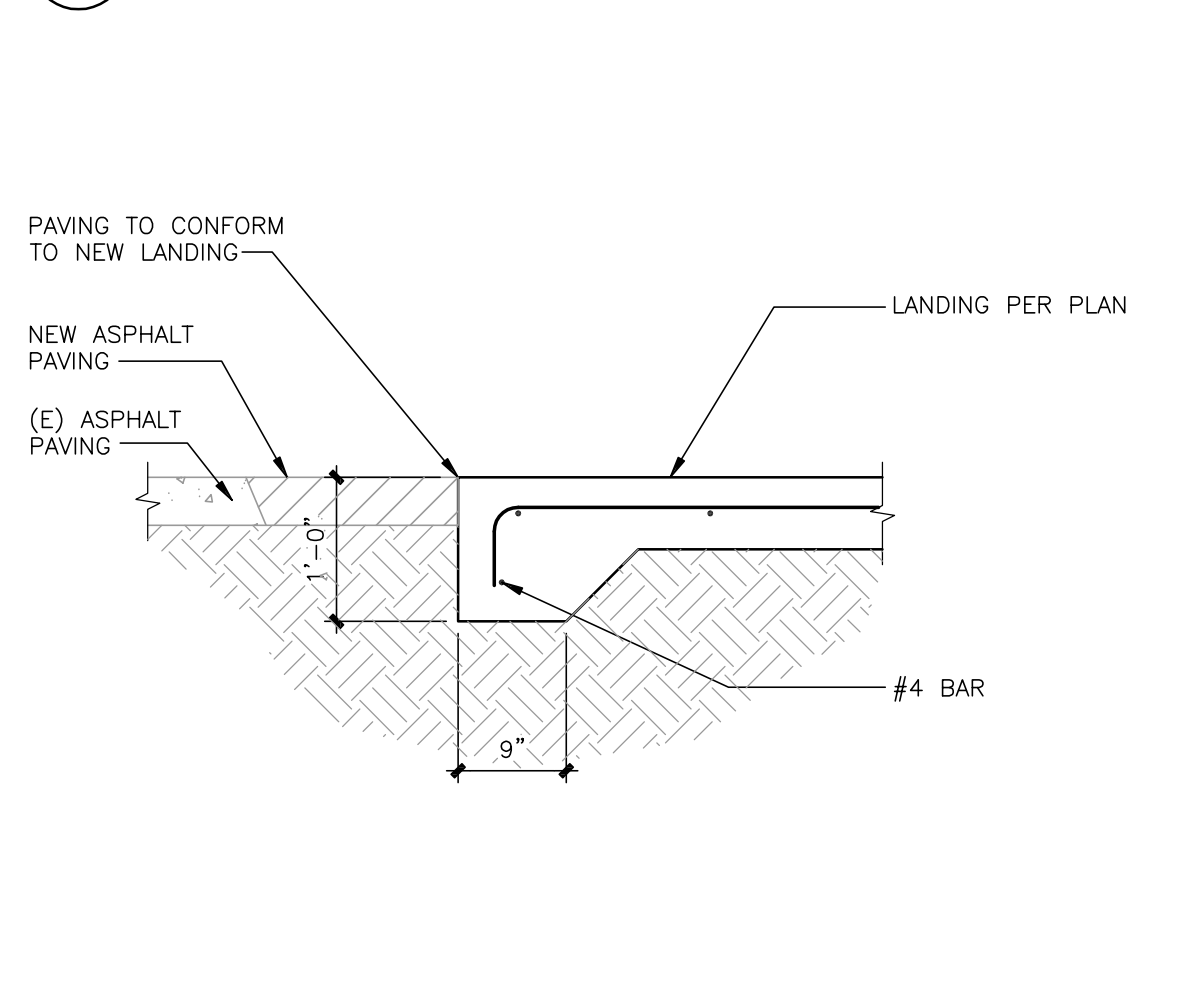
3 CONCRETE EXTERIOR STEPS SECTION
SCALE: 3/4"=1'-0"



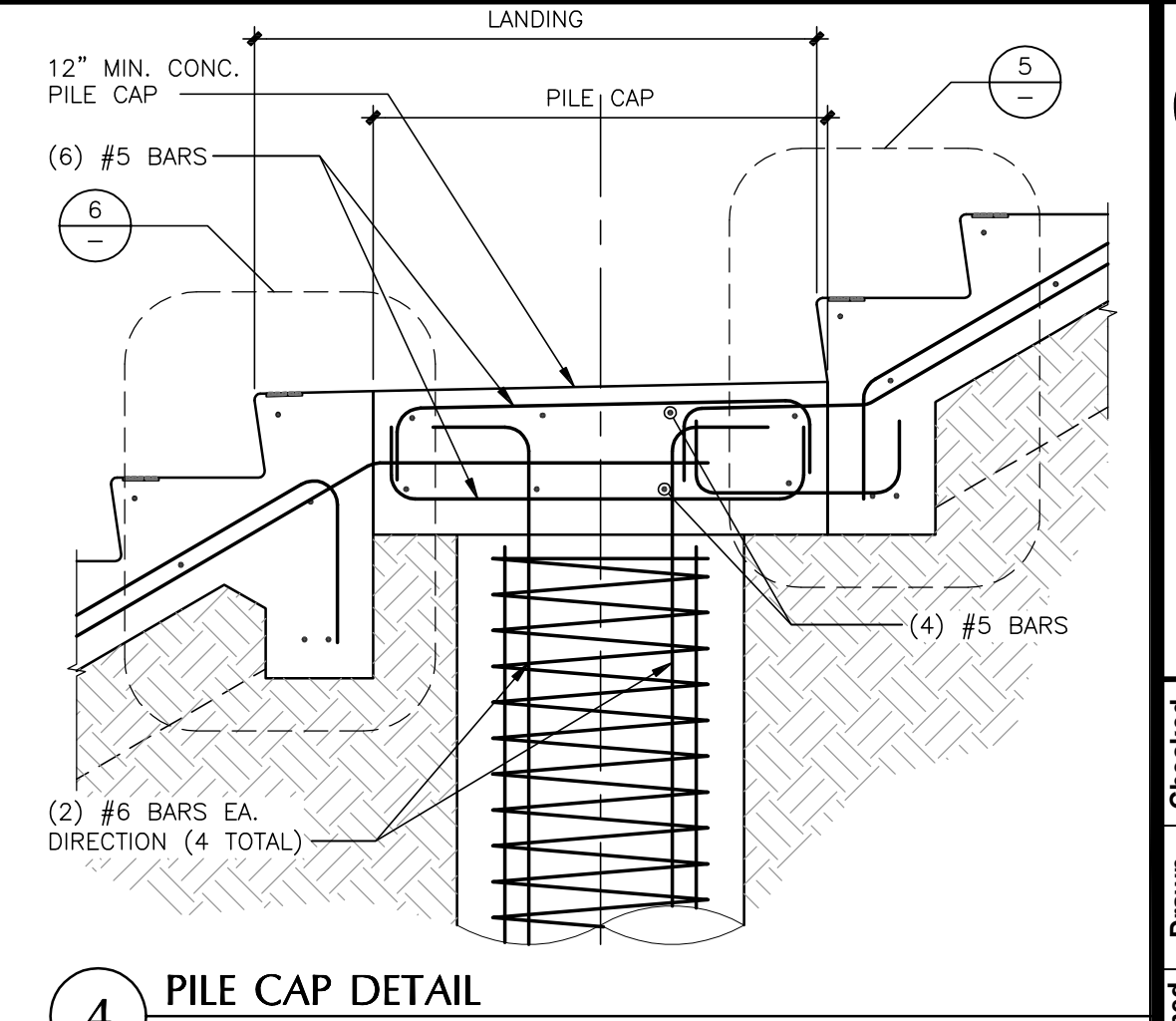
5 EXTERIOR STEPS AT PILE CAP
SCALE: 1"=1'-0"



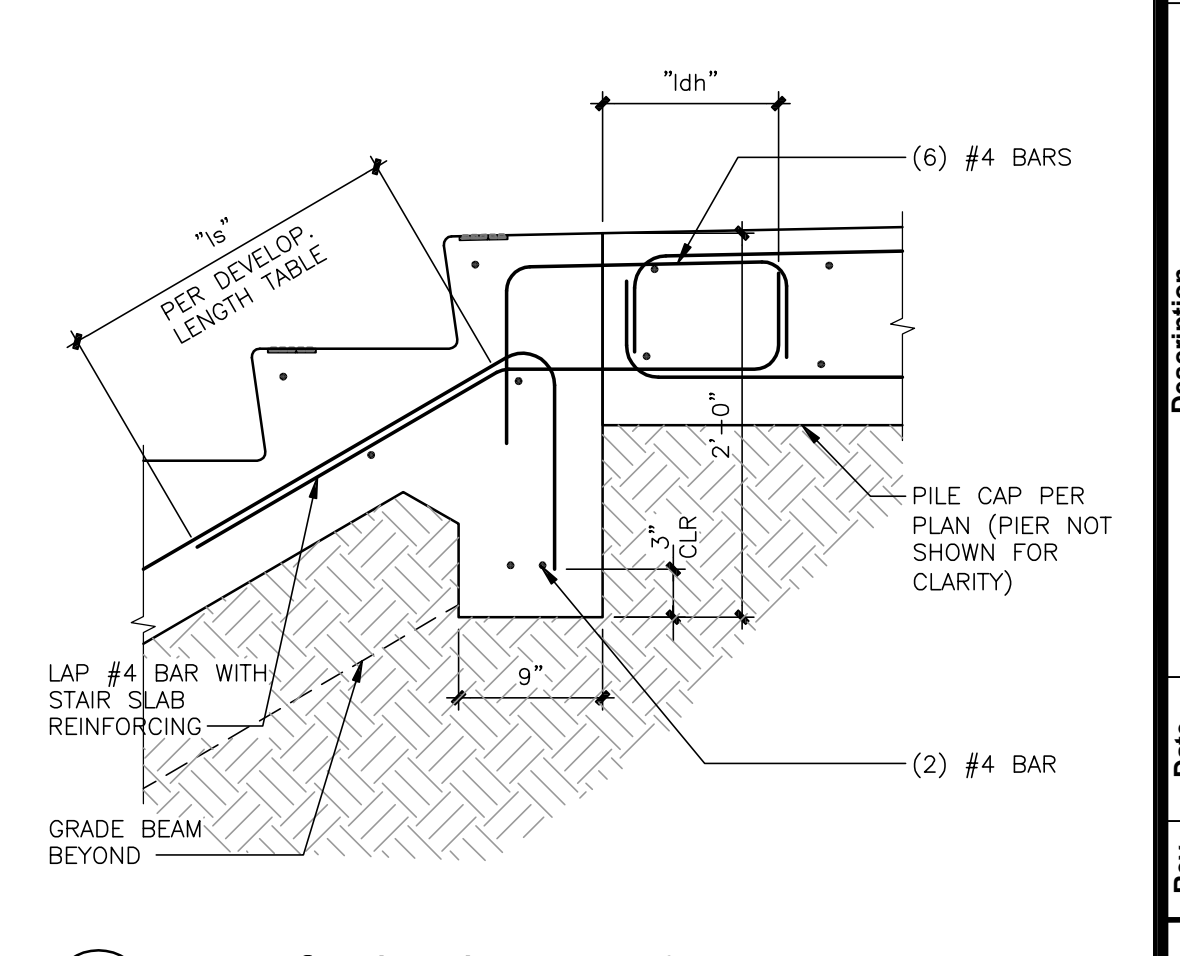
7 EXTERIOR STEPS AT WALKWAY SECTION
SCALE: 1"=1'-0"



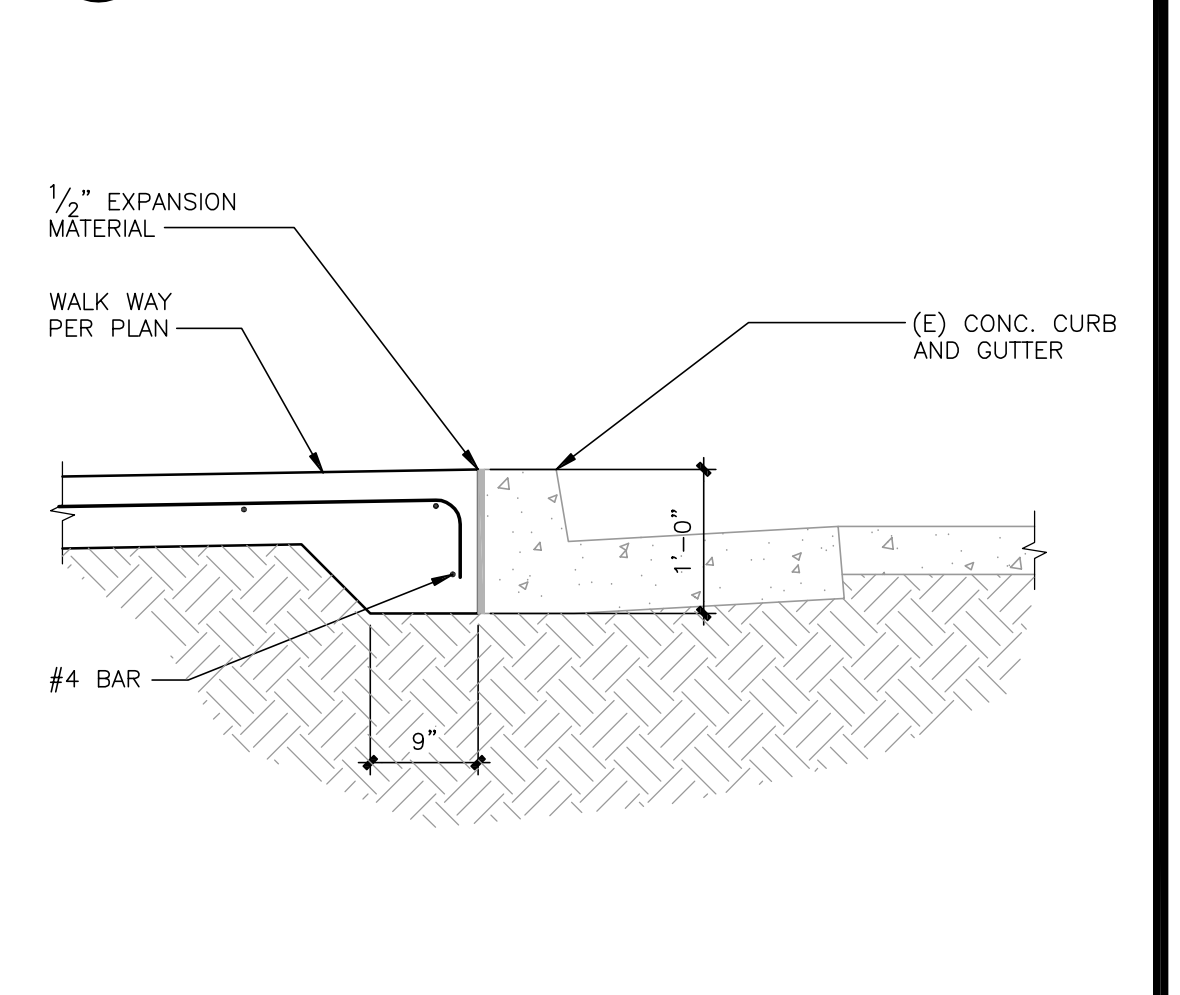
9 LANDING AT PARKING LOT ASPHALT
SCALE: 3/4"=1'-0"



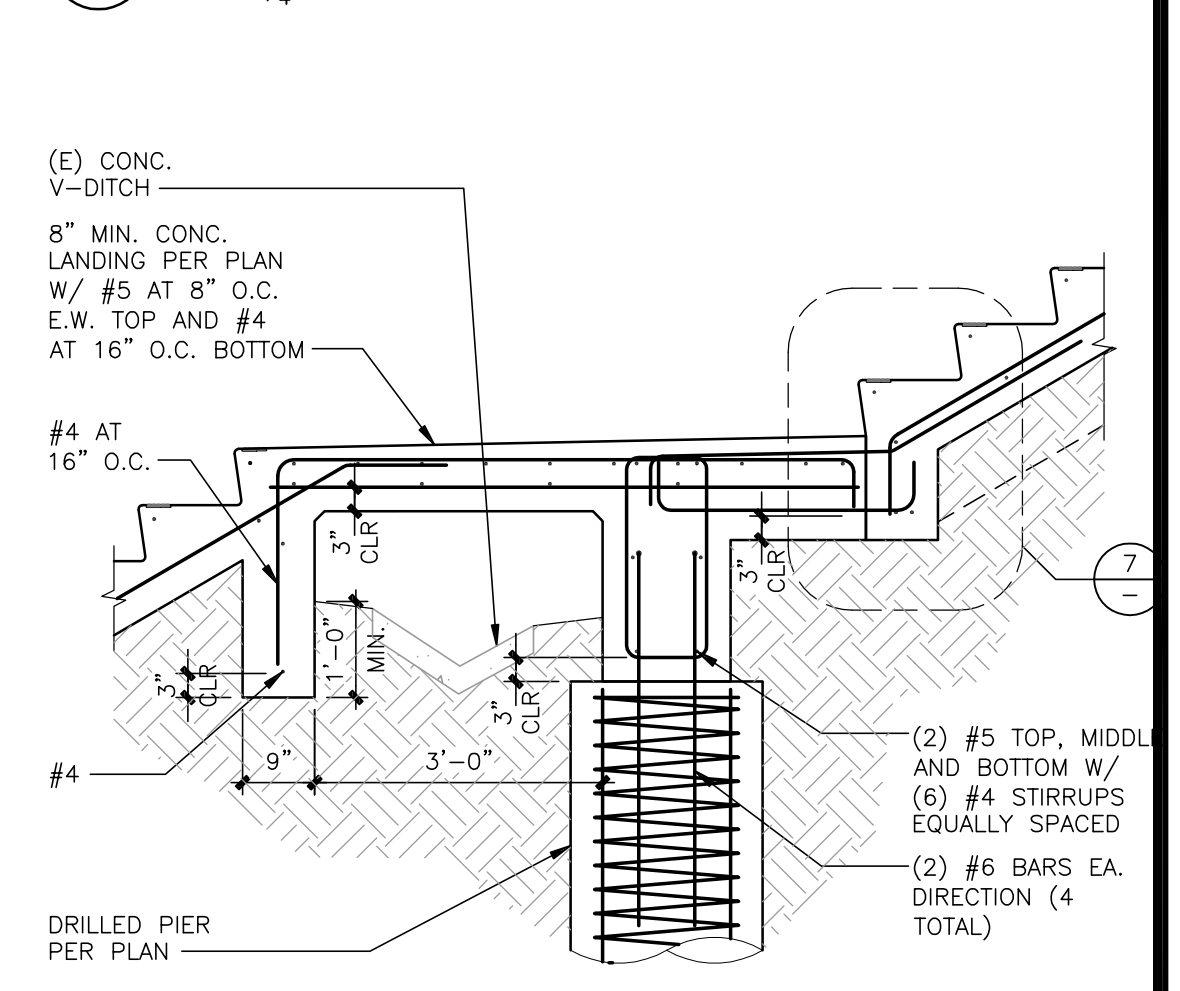
4 PILE CAP DETAIL
SCALE: 3/4"=1'-0"



6 EXTERIOR STEPS AT PILE CAP
SCALE: 1"=1'-0"








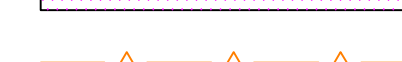



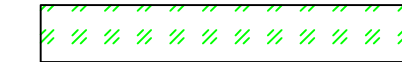


8 WALKWAY AT (E) CURB AND GUTTER
SCALE: 3/4"=1'-0"



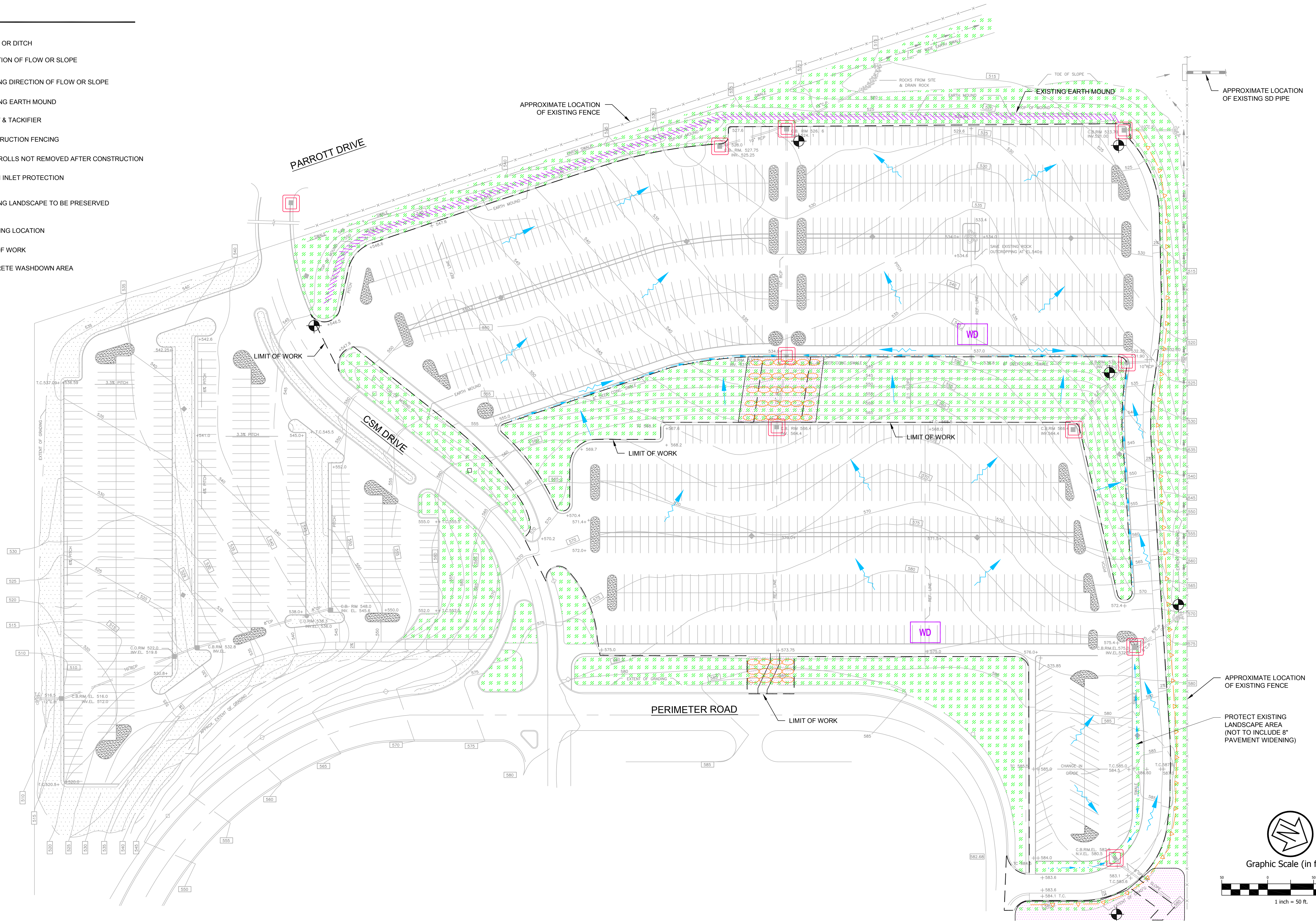
10 LANDING AT (E) V-DITCH
SCALE: 1/2"=1'-0"

NO.	DATE	DESCRIPTION	BY	CHECKED
A	11/23/10	50% REVIEW SUBMITTAL	MKH	MKH
B	12/14/10	90% REVIEW SUBMITTAL	MKH	MKH
C	12/17/10	100% REVIEW SUBMITTAL	MKH	MKH
D	11/18/11	100% REVIEW SUBMITTAL	MKH	MKH
E	11/18/11	100% FINAL REVIEW	MKH	MKH
F	1/28/11	100% CONSTRUCTION DOCUMENTS	MKH	MKH
G	1/28/11	100% CONSTRUCTION DOCUMENTS	MKH	MKH
H	2/2/11	ADDED REVISIONS TO CONSTRUCTION DOCUMENTS	MKH	MKH
I	2/2/11	ADDED REVISIONS TO CONSTRUCTION DOCUMENTS	MKH	MKH

LEGEND

-  SWALE OR DITCH
-  DIRECTION OF FLOW OR SLOPE
-  EXISTING DIRECTION OF FLOW OR SLOPE
-  EXISTING EARTH MOUND
-  STRAW & TACKIFIER
-  CONSTRUCTION FENCING
-  FIBER ROLLS NOT REMOVED AFTER CONSTRUCTION
-  STORM INLET PROTECTION
-  EXISTING LANDSCAPE TO BE PRESERVED
-  SAMPLING LOCATION
-  LIMIT OF WORK
-  CONCRETE WASHDOWN AREA

NOTE: SEE SHEET EC-2 FOR DETAILS



Rev	Date	Description	Designed	Drawn	Checked
G	12/13/11	RECORD DRAWINGS	EMD	JKS	JG
F	01/28/11	100% CONSTRUCTION DOCUMENTS			
-	01/19/11	100% FINAL REVIEW	KNP	JAH	KNP

CSW ST2

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 Land Planning | Construction Management
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 http://www.cswst2.com © 2010

City San Mateo
 County San Mateo
 State California

HILLSDALE PARKING LOTS REPAIRS AND IMPROVEMENTS
EROSION & SEDIMENT CONTROL PLAN
 PANKOW SPECIAL PROJECTS, L.P.

Prepared Under the Direction of:

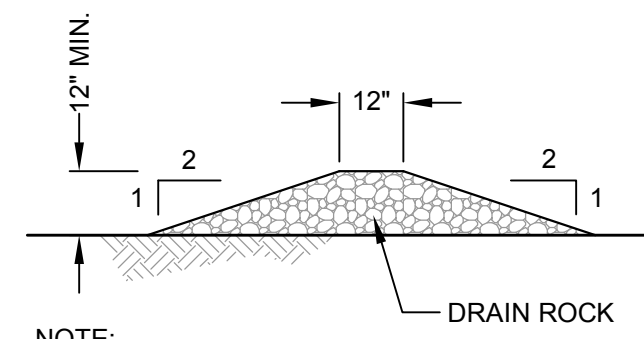
Sheet
EC-1
 Scale: 1" = 50'
 Date: 11/05/10
 Project Number: 4.1121.04
 Plan File: D-XXXX-XX

POLLUTION CONTROL NOTES:

- NO EXPORT OF SOIL FROM THE PARKING LOT IS ANTICIPATED.
- PARKING LOTS WILL BE REPAIRED AND IMPROVED ACCORDING TO THE PLANS PREPARED BY CSW/ST2. FINISH GRADING SHALL DIRECT ALL STORM WATER RUNOFF TO THE STREETS OR INLETS SHOWN ON THIS PLAN AND ULTIMATELY TO THE CITY/COUNTY-MAINTAINED STORM DRAIN SYSTEM. ALL STORM WATER FROM THIS SITE IS INTENDED TO BE DIRECTED TO THE CITY STORM DRAINS.
- IF SIGNIFICANT SEDIMENT OR OTHER VISUAL SYMPTOMS OF IMPURITIES ARE NOTICED IN THE STORM WATER, CONTACT THE CIVIL ENGINEER IMMEDIATELY.
- CONTRACTOR IS RESPONSIBLE FOR INSPECTION AND RESTORATION OF ALL ASPECTS OF THIS PLAN. SEDIMENT ON SIDEWALKS AND GUTTERS SHALL BE REMOVED BY SHOVEL OR BROOM.
- ALL DUMPSTERS OR OTHER TRASH STORAGE ENCLOSURES SHALL BE UTILIZED SOLELY FOR NON-HAZARDOUS MATERIALS PER SWPPP SEC. 6.
- ALL EMPLOYEES, CONTRACTORS, AND SUBCONTRACTORS ARE RESPONSIBLE FOR CONFORMING TO THE ELEMENTS SHOWN ON THIS PLAN OR RELATED DOCUMENTS. ANY CONTRACTOR PLANNING TO DO WORK ON-SITE SHALL BE RESPONSIBLE FOR OBTAINING AND REVIEWING ALL SWPPP INFORMATION FROM OWNER PRIOR TO START OF WORK AND EDUCATING ALL OF THEIR EMPLOYEES OR SUBCONTRACTORS AS TO THE CONTENTS OF THIS SWPPP.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND FILING ALL PLANS WITH RELATED AGENCIES ASSOCIATED WITH THEIR WORK. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, PERMITS FOR STORAGE OF HAZARDOUS MATERIALS, BUSINESS PLANS, PERMITS FOR STORAGE OF FLAMMABLE LIQUIDS, GRADING PERMITS, OR OTHER PLANS OR PERMITS REQUIRED BY SAN MATEO COUNTY, OR OTHER AGENCIES. ALL PROPERTY OWNERS, CONTRACTORS, OR SUBCONTRACTORS WORKING ON-SITE ARE INDIVIDUALLY RESPONSIBLE FOR OBTAINING AND SUBMITTING ANY BUSINESS PLANS OR PERMITS REQUIRED BY CITY, STATE OR LOCAL AGENCIES.
- CONTRACTOR MAY RELOCATE STORAGE, DELIVERY, OR WASH-OUT AREAS, TO SUIT THEIR OPERATIONS. RELOCATED LOCATION TO BE SHOWN ON PLANS MAINTAINED AT JOBSITE. CONTACT CIVIL ENGINEER FOR ANY PLAN REVISIONS. PLAN REVISIONS SHALL BE SUBMITTED TO SAN MATEO COUNTY OR OTHER AGENCIES IF REQUESTED. CONTRACTOR TO MAINTAIN SECONDARY CONTAINMENT AS NECESSARY TO PROHIBIT POLLUTION AND TOXIC MATERIALS FROM ENTERING STORM DRAIN.
- AFTER COMPLETION OF THE CURB, GUTTER, AND PAVING, OR CONCRETE V-DITCHES THE SILT FILTERS SHALL BE MODIFIED TO BURLAP SACKS FILLED WITH 3/4" DRAIN ROCK OR OTHER ACCEPTED BMP POSITIONED SURROUNDING EACH CATCH BASIN.
- THIS PLAN TO BE USED IN CONJUNCTION WITH THE WRITTEN REPORT OF STORM WATER POLLUTION PREVENTION SUBMITTED BY CSW/STUBER-STROEH ENGINEERING GROUP, INC.

EROSION CONTROL NOTES:

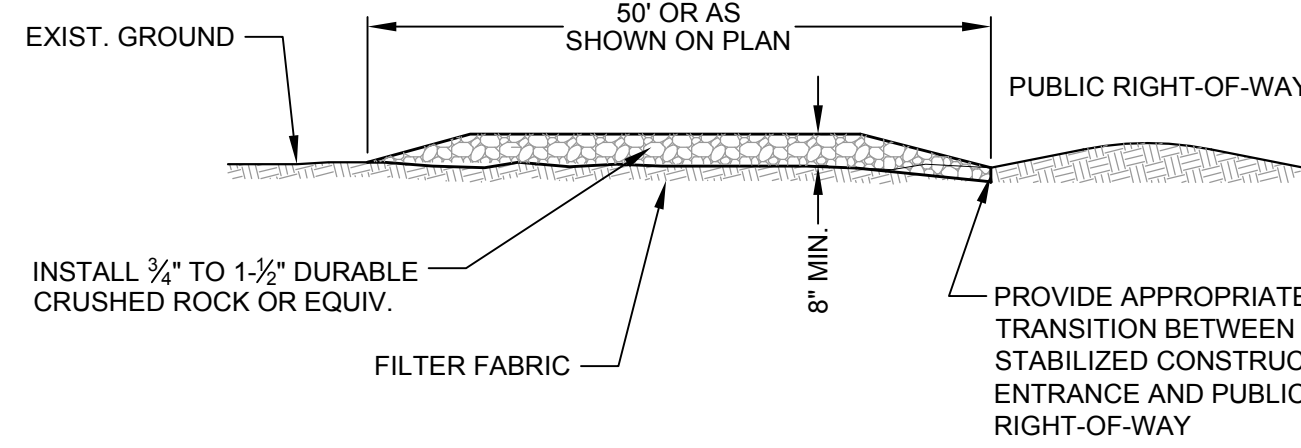
- NO VEHICLES SHALL BE ALLOWED TO TRACK OR SPREAD SOIL FROM THE CONSTRUCTION AREAS ONTO EXISTING PAVED PUBLIC STREETS. AS NEEDED, INSTALL CONSTRUCTION ENTRANCES FOR CONSTRUCTION TRAFFIC. THE ENTRANCE MAY BE MODIFIED BY THE CONTRACTOR TO FACILITATE HIS OPERATIONS.
- THE EROSION AND SEDIMENT CONTROL MEASURES WILL BE OPERABLE DURING THE RAINY SEASON, OCTOBER 1ST TO APRIL 15TH.
- CHANGES TO THIS STORM WATER POLLUTION PREVENTION PLAN TO MEET FIELD CONDITIONS WILL BE MADE ONLY WITH THE APPROVAL OF, OR AT THE DIRECTION OF THE OWNER. CHANGES MADE TO SUIT FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CIVIL ENGINEER AND THE OWNER.
- DURING THE RAINY SEASON, ALL PAVED AREAS WILL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE WILL BE MAINTAINED SO THAT A MINIMUM OF SEDIMENT-LADEN RUNOFF ENTERS THE STORM DRAIN SYSTEM. THESE PLANS SHALL REMAIN IN EFFECT UNTIL THE IMPROVEMENTS ARE ACCEPTED BY THE OWNER, AND ALL SLOPES ARE STABILIZED FROM EROSION.
- STRAW AND TACKIFIER WILL BE APPLIED BY OCTOBER 1ST TO ALL DISTURBED AREAS. ALL EXPOSED SLOPES ADJACENT TO PUBLIC RIGHTS OF WAY SHALL ALSO RECEIVE STRAW AND TACKIFIER. STRAW AND TACKIFIER TO BE APPLIED PER MANUFACTURER'S SPECIFICATIONS AND SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE MINIMUM.
- ROUGH GRADED DITCHES SHALL BE LINED WITH EROSION CONTROL BLANKETS AND THEN HYDROSEEDED.
- AFTER INSTALLATION OF CONCRETE IN DITCHES, INSTALL ONE SACKED ROCK FILTER DAM AT INLET UNTIL SLOPES ARE STABILIZED FROM EROSION.
- PRIOR TO START OF ANY CONSTRUCTION OR DEMOLITION, INSTALL DRAIN INLET PROTECTION.
- THIS PLAN ASSUMES THE COMPLETION OF GRADING AND STORM DRAIN FACILITIES. IF FACILITIES ARE NOT COMPLETED, CONTACT THE CIVIL ENGINEER FOR ANY NEEDED PLAN AMENDMENTS.
- ALL BANKS AND ALL GRADED AREAS SHALL BE HYDROSEEDED TO CONTROL EROSION BY OCTOBER 1ST.



NOTE:
FILTER BERM TO BE PLACED ACROSS ROADWAYS.

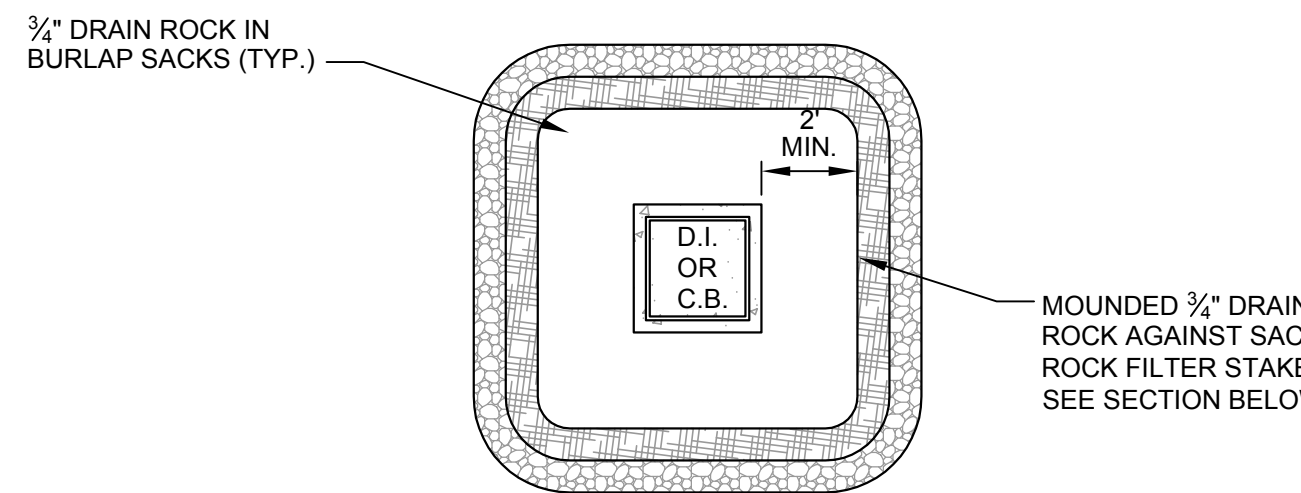
1 TYPICAL ROCK FILTER

SCALE: NTS

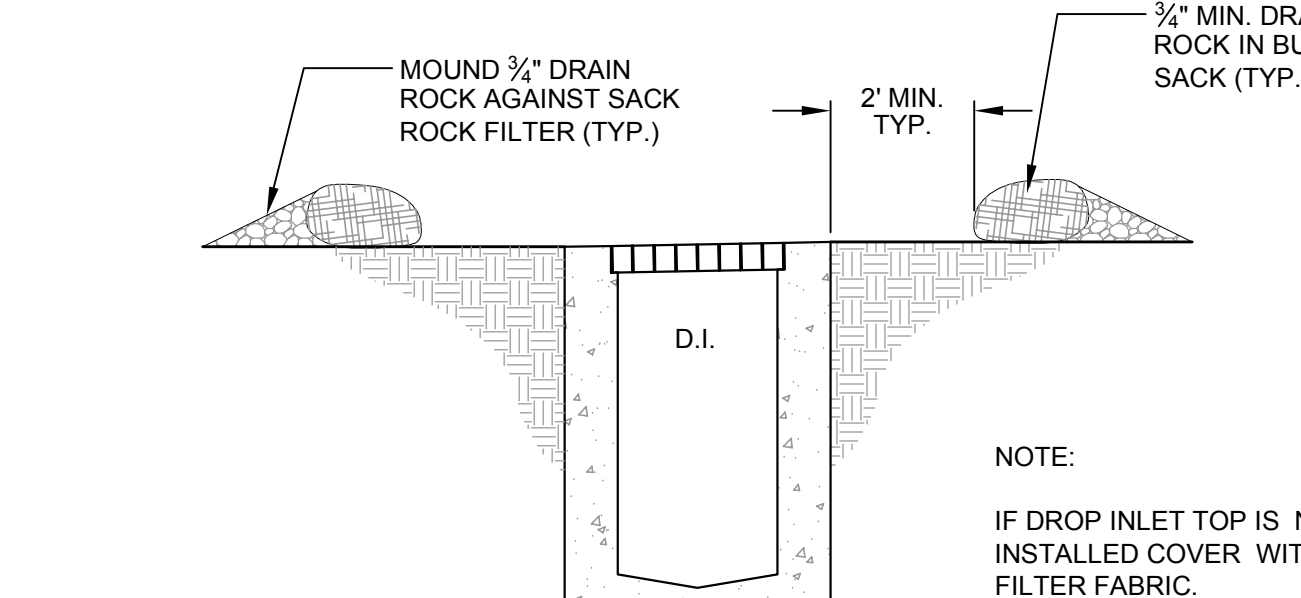


3 TEMPORARY STABILIZED CONSTRUCTION ENTRANCE

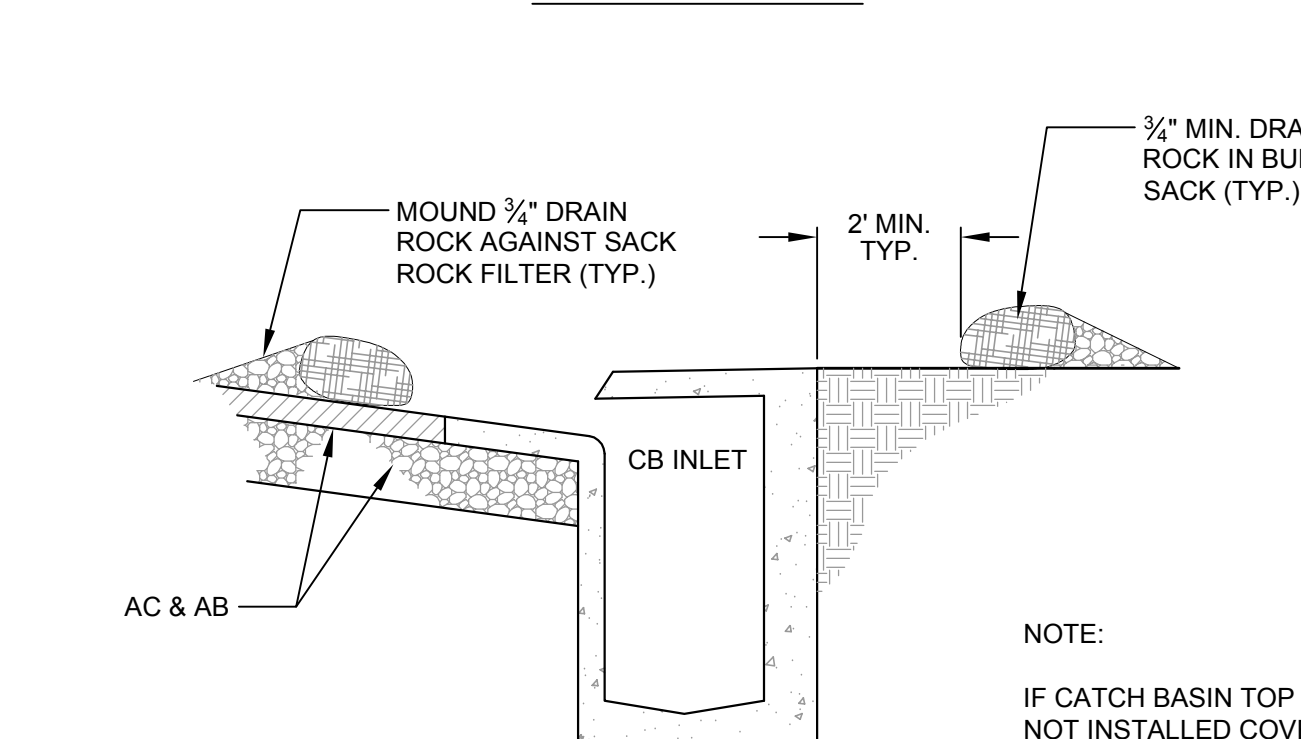
SCALE: NTS



NOTE:
TWO ROWS OF FIBER ROLLS MAY BE SUBSTITUTED FOR SACKED DRAIN ROCK AND DRAIN ROCK IN AREAS WITHOUT PAVED STREETS.



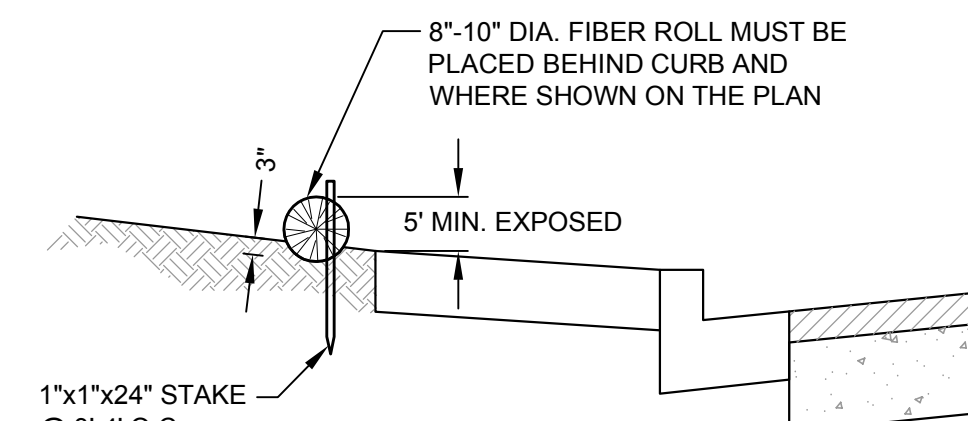
NOTE:
IF DROP INLET TOP IS NOT INSTALLED COVER WITH FILTER FABRIC.



NOTE:
IF CATCH BASIN TOP IS NOT INSTALLED COVER WITH FILTER FABRIC.

6 GRAVEL BAG FILTER IN TRAFFIC AREAS

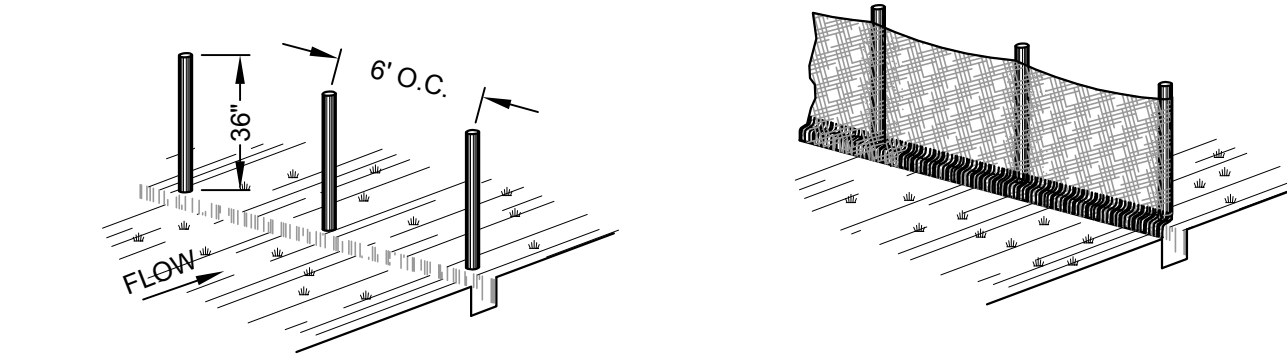
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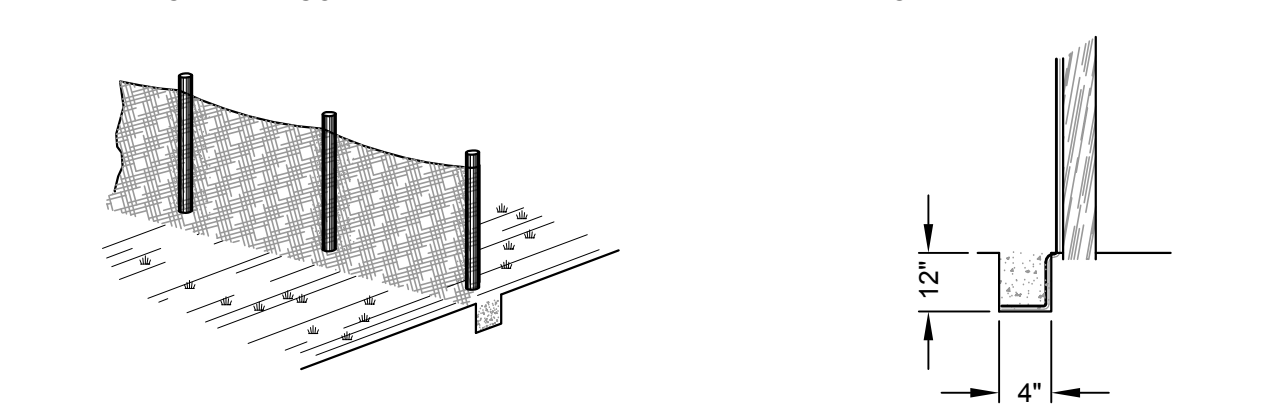
2 FIBER ROLL INSTALLATION DETAILS

SCALE: NTS

- SET 4"Ø WOOD OR 1.33 PLF STEEL POSTS 5' IN LENGTH. EXCAVATE A 4"x4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.
- ATTACH SILT FENCE TO POSTS AND EXTEND IT INTO THE TRENCH.

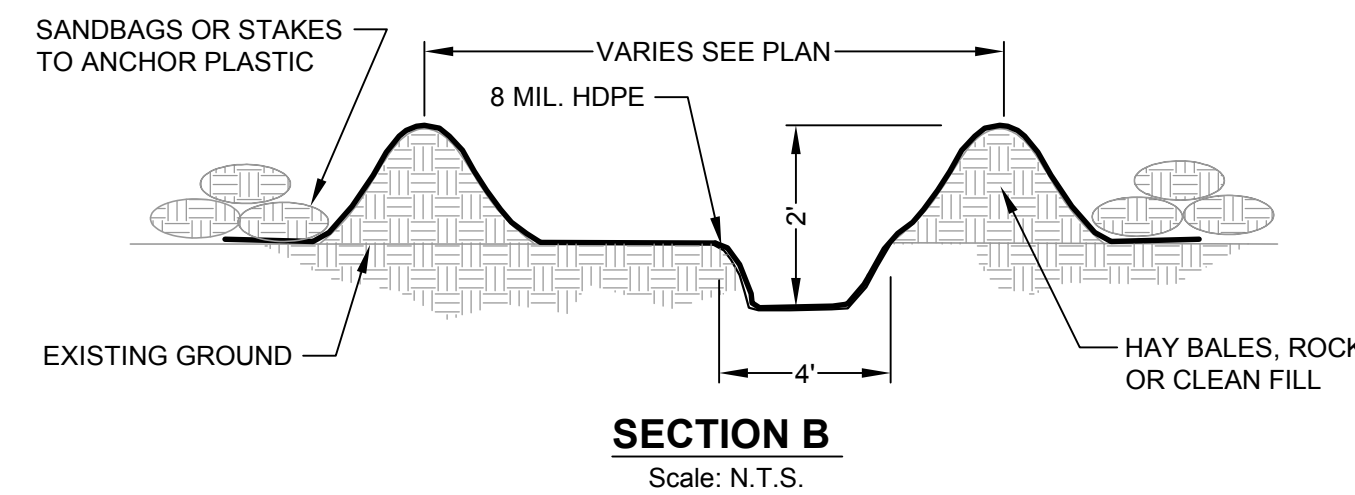


- BACKFILL AND COMPACT THE EXCAVATED SOIL.
- EXTENSION OF FABRIC INTO THE TRENCH.

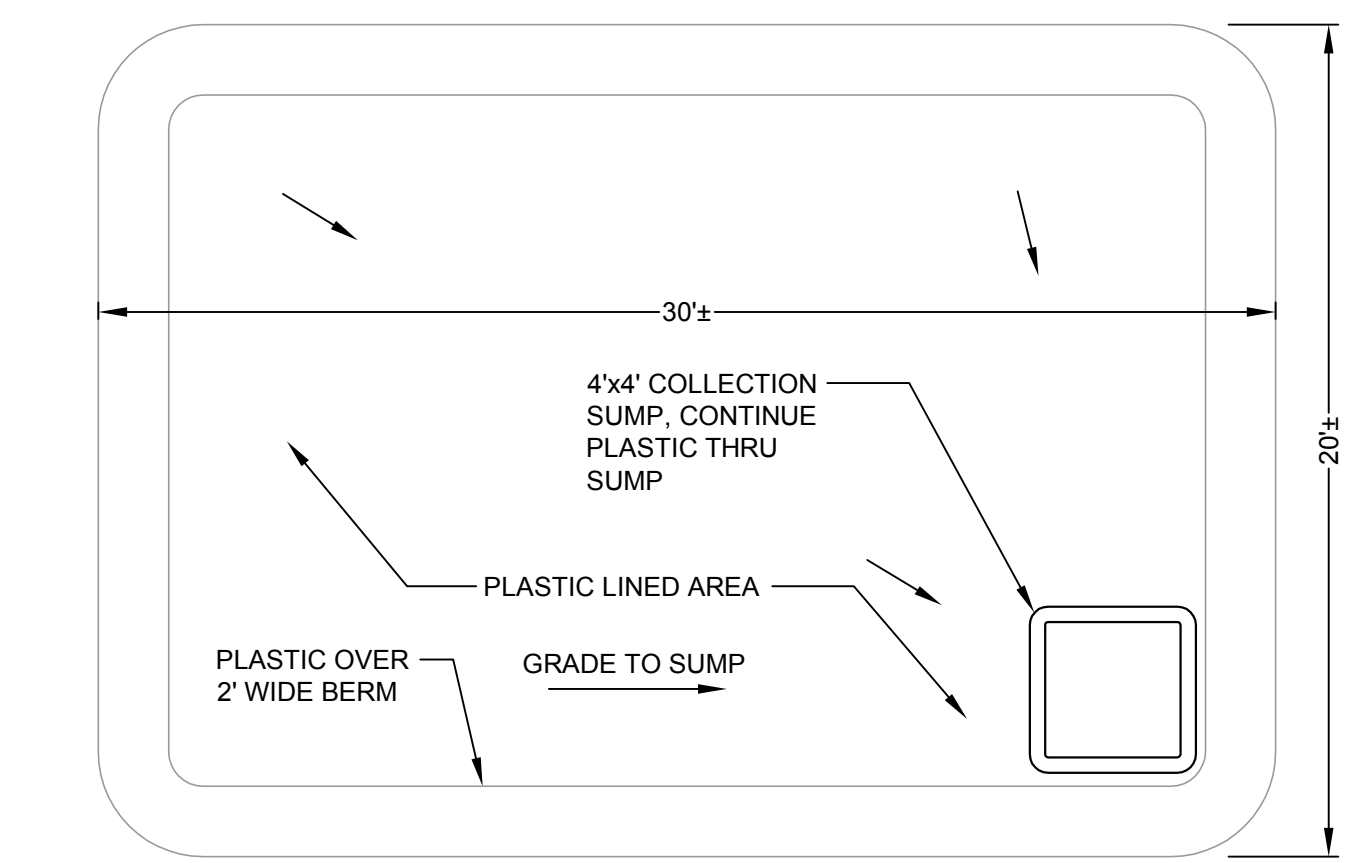


4 SILT FENCE DETAIL

SCALE: NTS



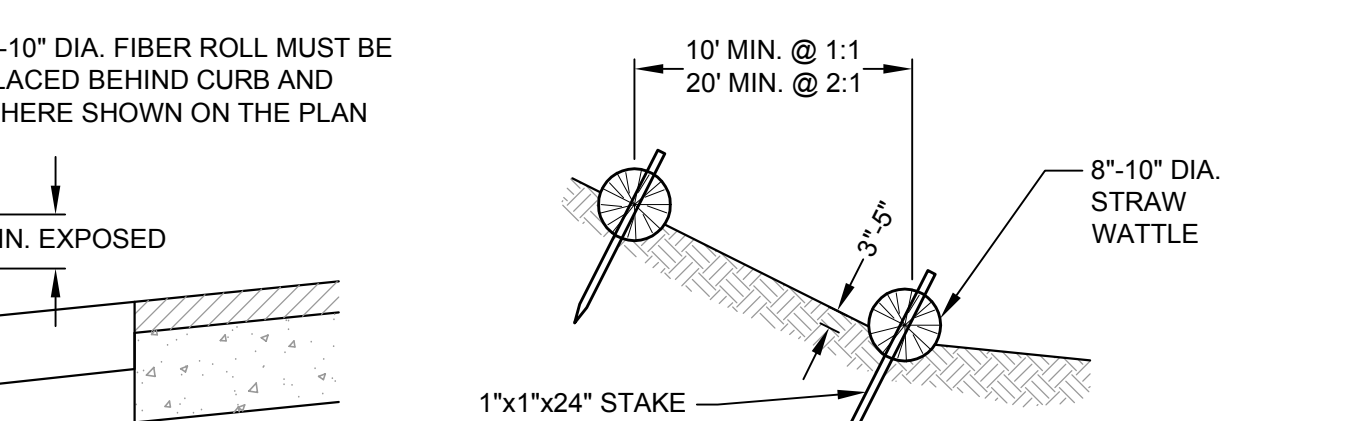
SCALE: N.T.S.



- NOTES:
- PUMP WASTE INTO TANKER FOR DISPOSAL.
 - DEPRESS ENDS TO ALLOW VEHICLE ACCESS.
 - VARY SIZE OF AREA TO FIT CONTRACTOR REQUIREMENTS.

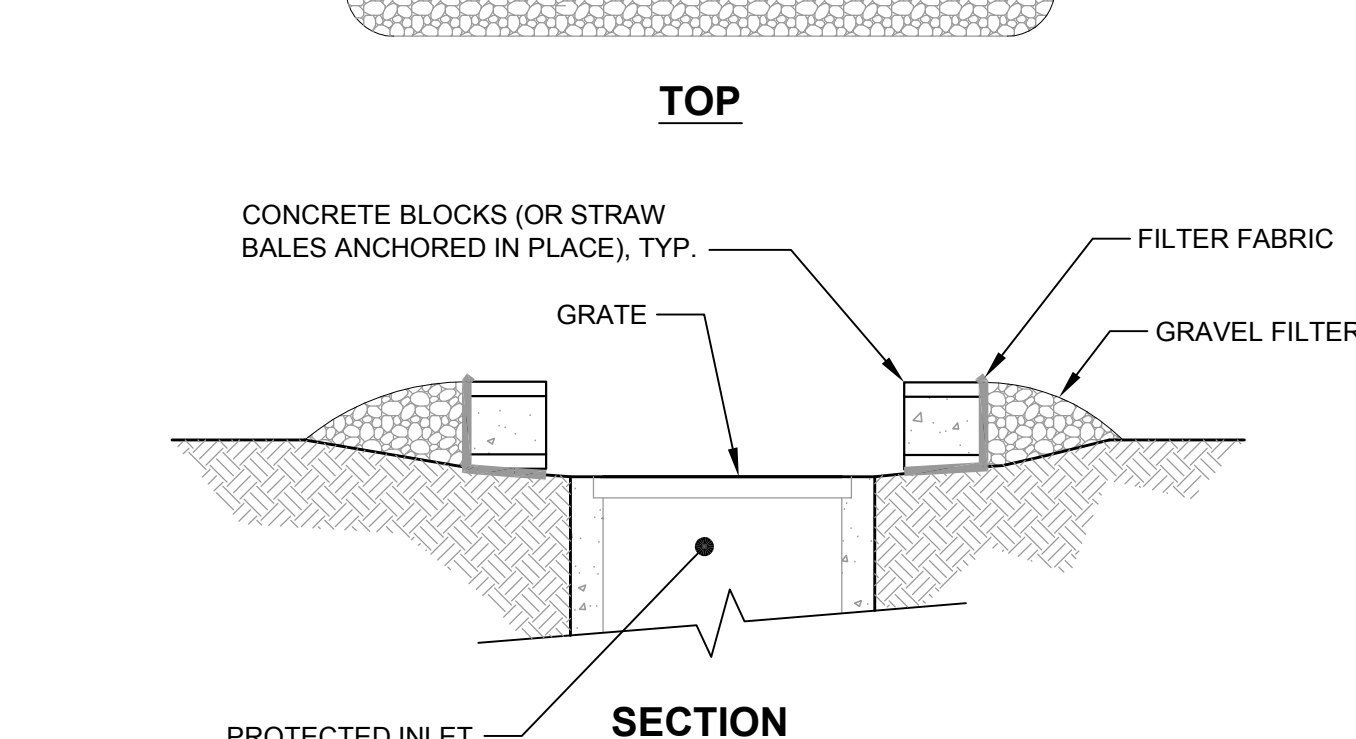
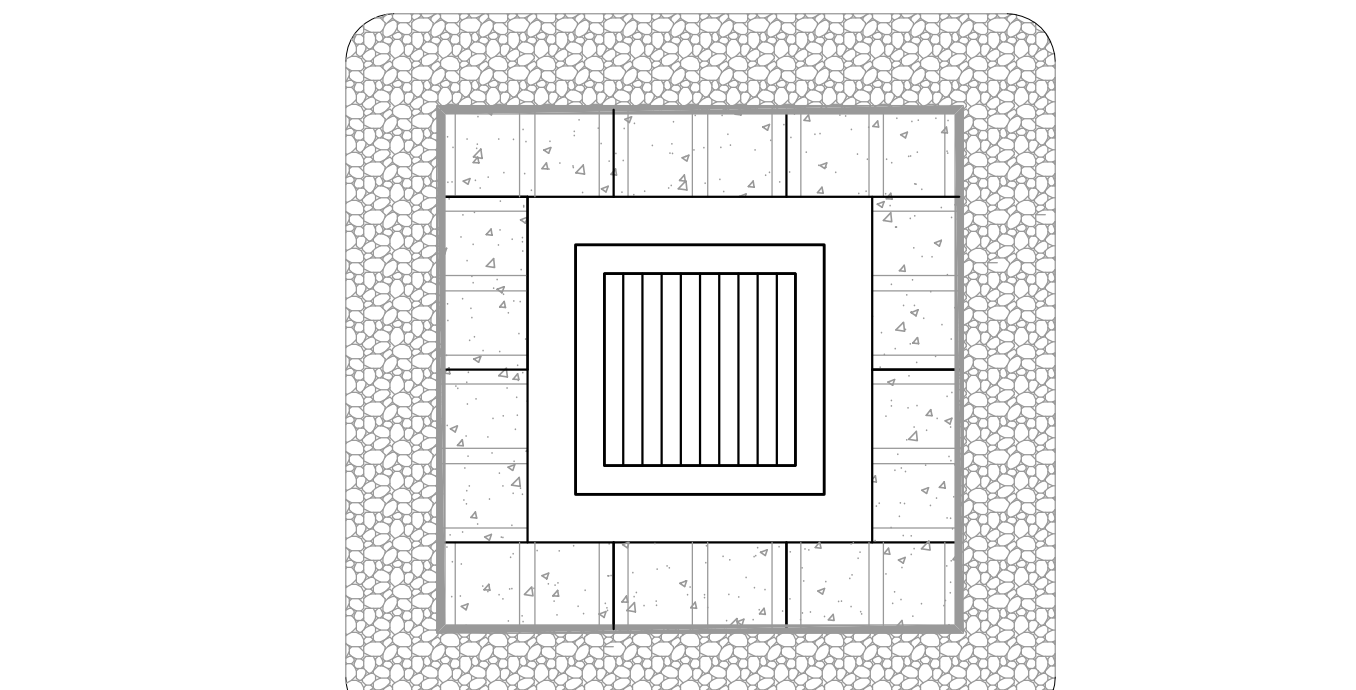
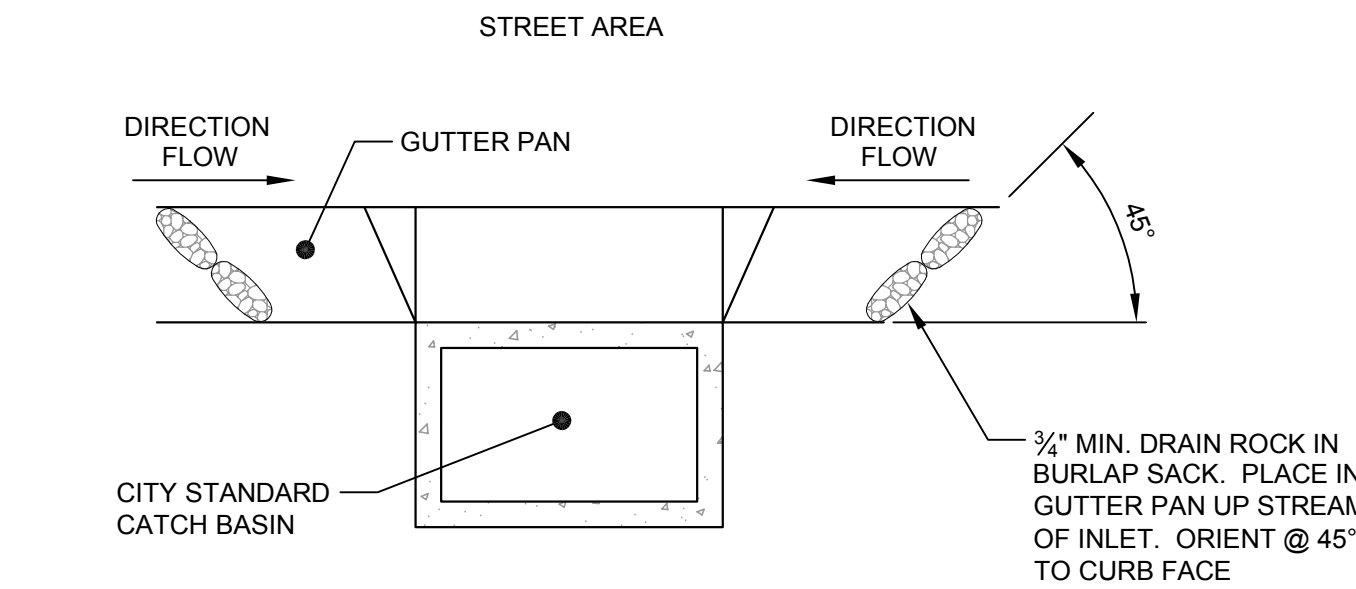
7 VEHICLE AND EQUIPMENT SERVICE FUELING AREA

SCALE: NTS



5 GRAVEL BAG FILTER AT GUTTER IN TRAFFIC AREAS

SCALE: NTS



8 INLET PROTECTION DETAIL

SCALE: NTS

Rev	Date	Description	Designed	Drawn	Checked
G	12/13/11	RECORD DRAWINGS	EMD	JKS	JG
F	01/28/11	100% CONSTRUCTION DOCUMENTS	KNP	JAH	KNP
-	01/19/11	100% FINAL REVIEW	KNP	JAH	KNP

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 Land Planning | Construction Management
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 http://www.cswst2.com © 2010

City	San Mateo
County	San Mateo
State	California

HILLSDALE PARKING LOTS REPAIRS AND IMPROVEMENTS
EROSION CONTROL DETAILS
 PANKOW SPECIAL PROJECTS, L.P.

Prepared Under the Direction of:	Sheet
	EC-2
	Scale: 1" = 50'
	Date: 11/05/10
	Project Number: 4.1121.04
	Plan File: D-XXXX-XX

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