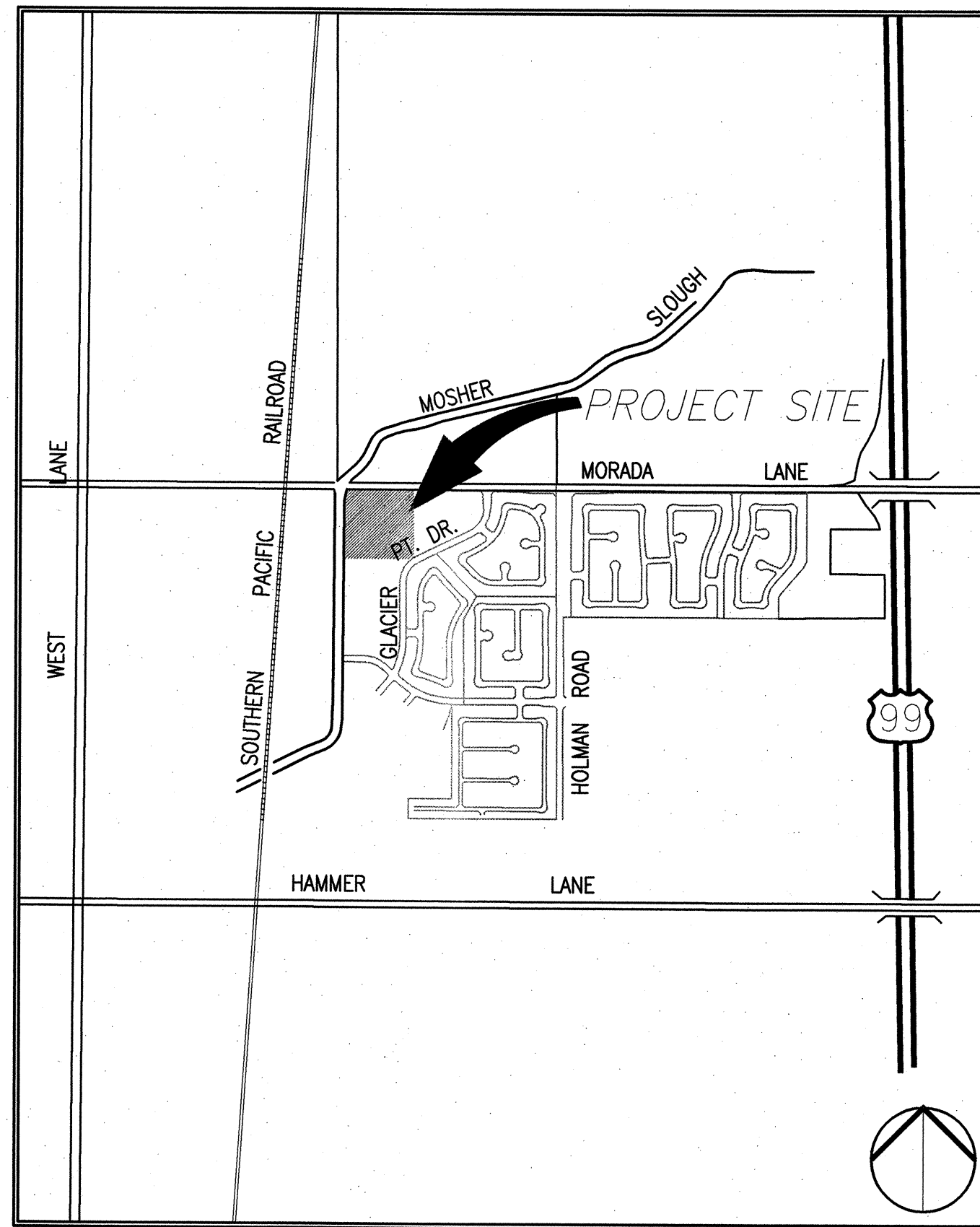


MATT EQUINOA PARK PHASE II

STOCKTON, CALIFORNIA

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
Ø	AT
AB	AGGREGATE BASE
ABS	ACRYLONITRILE-BUTADIENE-STYRENE
AC	ASPHALT CONCRETE
BCR	BEGINNING OF CURB RETURN
BO	BLOWOFF
BOC	BACK OF CURB
BOW	BACK OF WALK
C & G	CURB AND GUTTER
C, G, & SW	CURB, GUTTER, AND SIDEWALK
CL	CENTERLINE
CB	CATCH BASIN
CJ	CONSTRUCTION JOINT
CO	CLEANOUT
COS	CITY OF STOCKTON
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWG	DRAWING
EBOW	EXISTING BACK OF WALK
EOR	END OF CURB RETURN
EL	ELEVATION
EOP	EDGE OF EXISTING PAVEMENT
EP	EDGE OF PAVEMENT, EXISTING PAVEMENT
ESMT	EASEMENT
EX	EXISTING
FL	FLOWLINE
FH	FIRE HYDRANT
FOC	FACE OF CURB
FT.	FEET
G	GROUND
GB	GRADE BREAK
HP	HIGH POINT
ID	INSIDE DIAMETER
IN.	INCH
LF	LINEAL FEET
LH	LAMP HOLE
LP	LOW POINT
LT	LEFT
LTS	LIME TREATED SUB-BASE
MAX	MAXIMUM
MH	MAINTENANCE HOLE
MIN	MINIMUM
NO.	NUMBER
NRCP	NON-REINFORCED CONCRETE PIPE
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
P	PAVEMENT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
POT	POINT OF TANGENCY
PP	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PT	POINT
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
PL	PROPERTY LINE
R	RADIAL OR RADIUS
R/W	RIGHT-OF-WAY
RC	ROLL-CURB
RCP	REINFORCED CONCRETE PIPE
RP	RADIUS POINT
RT	RIGHT
SD	STORM DRAIN
SS	SANITARY SEWER
SL	STREET LIGHT
SW	SIDEWALK
SDMH	STORM DRAIN MAINTENANCE HOLE
SHT	SHEET
SSMH	SANITARY SEWER MAINTENANCE HOLE
STA	STATION
STD	STANDARD
TC	TOP OF CURB
TOW	TOP OF WALL
THRU	THROUGH
TI	TRAFFIC INDEX
TYP	TYPICAL
VERT	VERTICAL
W	WATER
WP	WEAKENED PLANE
(W)	WEST
(E)	EAST
(S)	SOUTH
(N)	NORTH
±	PLUS OR MINUS



VICINITY MAP
NOT TO SCALE

SHEET INDEX:

CS	COVER SHEET
C1.0	GENERAL NOTES AND SPECIFICATIONS
C2.0	TOPOGRAPHY AND DEMOLITION PLAN
C3.0	CONSTRUCTION PLAN
C4.0	PAVING AND DIMENSIONAL PLAN
C4.1	BALLFIELD DIMENSIONAL PLAN
C5.0	GRADING PLAN
C6.0	UTILITY PLAN
C7.0	EROSION CONTROL PLAN
L1.0	IRRIGATION OVERALL PLAN
L1.1	IRRIGATION PLAN
L2.0	TREE PLAN
L3.0	SHRUB AND GROUNDCOVER PLAN
L4.0	LANDSCAPE DETAILS I
L4.1	LANDSCAPE DETAILS II
L4.2	DRIP DETAILS
L4.3	IRRIGATION NOTES AND CALCULATIONS
E1	OVERALL PARK ELECTRICAL
E2	PARK ELECTRICAL PLAN
E2A	PHOTOMETRIC STUDY
E3	PARK ELECTRICAL PLAN
E4	SPORTS FIELD ELECTRICAL
E5	SPORTS FIELD PHOTOMETRIC
E6	SWITCHBOARD DETAILS
E7	CONTROLS
E8	CONTROLS
E9	ELECTRICAL DETAILS
E10	BASEBALL FIELD DETAILS

DETAIL INDEX:

SHEET	DTL #	DETAIL
C1.0	1	PARKING STALL SIGNAGE
	2	ACCESSIBLE PARKING SYMBOL
	3	ACCESSIBLE PARKING
C4.0	1	PERVIOUS CONCRETE WALKWAY
	2	TYPICAL CONCRETE DETAILS
	3	CONCRETE MOWBAND
C5.0	1	ADA PARKING STALL DETAIL
C6.0	1	ROUND CATCH BASIN
	2	STORM DRAIN MESSAGE LOCATION
C7.0	1	DROP INLET SEDIMENT PROTECTION
	2	FIBER ROLLS
	3	STABILIZED CONSTRUCTION ENTRANCE
	4	CONCRETE WASH OUT
L4.0	1	BACKSTOP
	2	BACKSTOP CONCRETE FOOTING
	3	DUGOUT FENCING
	4	PLAYER'S DUGOUT BENCH
	5	INFIELD SURFACING
	6	OUTDOOR DOG GLOVE DISPENSER
	7	BIKE RACK
	8	BENCH
	9	TRASH RECEPTACLE
L4.1	11	TREE/SHRUB PLANTING & STAKING
	12	TREE TIE
	13	GROUNDCOVER SPACING
	14	DECOMPOSED GRANITE
	17	REMOTE CONTROL VALVE
	18	QUICK COUPLER
	19	GATE VALVE
	20	PIPE SLEEVE W/90 DEG ELBOW
	21	VALVE BOX
	22	PIPE AND WIRE TRENCHING
L4.2	24	DRIP ZONE KIT
	25	CENTER-FEED LAYOUT
	26	ODD CURVES LAYOUT
	27	TWO RING TREE LAYOUT
	28	MANIFOLD CENTER FEED
	29	MANIFOLD END FEED
	30	MANIFOLD TEE CONNECTION
	31	MANIFOLD ELL CONNECTION
	32	STEEL STAPLE BELOW GRADE
	33	FLUSH VALVE POLY ELL
	34	AIR/VACUUM RELIEF VALVE
	35	OPERATION INDICATOR

Keep a redlined set of these Permit Center Approved plans if we're going to submit for an updated permit from CDD. These drawings have already been reviewed and updated per Permit Center comments in 2008.

PROJECT CONTACTS

PROJECT MANAGER
CITY OF STOCKTON PUBLIC WORKS DEPARTMENT
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EMAIL: bnorbutas@siegfriedeng.com

ELECTRICAL ENGINEER
HCS ENGINEERING, INC.
4512 FEATHER RIVER DRIVE, SUITE F
STOCKTON, CA 95219
CONTACT:
RICHARD SMITH, P.E.
PHONE: (209) 478-8270
FAX: (209) 478-2169
EMAIL: richard@hcs-eng.com

PARTIAL LIST OF APPLICABLE CODES:

- 2010 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
- 2010 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2009 INTERNATIONAL BUILDING CODE AND 2010 CALIFORNIA AMENDMENTS)
- 2010 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2008 NATIONAL ELECTRICAL CODE AND 2010 CALIFORNIA AMENDMENTS)
- 2010 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (2009 UNIFORM MECHANICAL CODE AND 2010 CALIFORNIA AMENDMENTS)
- 2010 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2009 UNIFORM PLUMBING CODE AND 2010 CALIFORNIA AMENDMENTS)
- 2010 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
- 2010 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2009 INTERNATIONAL FIRE CODE AND 2010 CALIFORNIA AMENDMENTS)
- 2010 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
- 2010 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

This will be a Public Works Project Manager TBD.

Update signature block for City Engineer "Eric Alvarez".



DATE SIGNED: 05/07/12

MATT EQUINOA PARK PHASE II

COVER SHEET

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

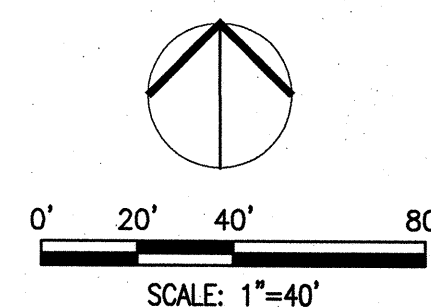
SCALE	AS SHOWN	APPROVED BY:	7/12/12	SHEET NO.	CS
DESIGNED BY	R.N.	DATE			
DRAWN BY	R.N.				
CHECKED BY	FJS				
RECORD DWGS.					

CITY LANDSCAPE ARCHITECT
STOCKTON, CALIFORNIA

PROJECT NO.



BENCHMARK:
PER ONSITE CONTROL PLAN ON SHEET C1.0



SIEGFRIED
3244 Brookside Road, Suite 100 Stockton, California 95219
209-943-2021 www.siegfriedeng.com Fx: 209-942-0214

- CIVIL ENGINEERING
- STRUCTURAL ENGINEERING
- LANDSCAPE ARCHITECTURE
- SURVEYING

Revision No.	Description	Date	By	Appr. By

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GENERAL NOTES

- ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE CITY OF STOCKTON STANDARD SPECIFICATIONS AND PLANS, LATEST EDITION, AND ALL AMENDMENTS THERE TO DATE.
- ELEVATIONS ARE REFERRED TO NGVD 29.
- PRIOR TO AND DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR BEING FAMILIAR WITH THE CURRENT CITY OF STOCKTON STANDARDS AND ALL UPDATES AND REVISIONS MADE TO ANY OF THE CITY OF STOCKTON STANDARD DETAILS SHOWN ON THESE PLANS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR BEING FAMILIAR WITH THE WRITTEN SPECIFICATIONS AND/OR OTHER STANDARD DETAILS NOT SHOWN BUT WHICH ARE INCLUDED IN THE "CITY OF STOCKTON STANDARD SPECIFICATIONS AND PLANS".
- DRAWING NUMBERS SHOWN ON THE PLANS REFER TO CITY OF STOCKTON STANDARD PLANS, SHOWN THUS: DWG. NO. **REMOVE PERIOD**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING FROM DAMAGE ALL EXISTING IMPROVEMENTS THAT ARE TO REMAIN. SUCH IMPROVEMENTS THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT HIS EXPENSE TO THE SATISFACTION OF THE CITY **LANDSCAPE ARCHITECT - PUBLIC WORKS PROJECT MANAGER**
- ALL TRENCH EXCAVATION SHALL BE IN ACCORDANCE WITH CITY OF STOCKTON STANDARD SPECIFICATION 7-1.01E.
- EXCAVATION OF 5 FEET OR MORE IN DEPTH WILL REQUIRE (AND CONTRACTOR SHALL BE RESPONSIBLE FOR) AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY.
- THE CONTRACTOR SHALL DEMOLISH, EXCAVATE, REMOVE AND DISPOSE OF ALL EXISTING CONCRETE CURB, GUTTER OR SIDEWALK, ASPHALT CONCRETE PAVING, AND DELETERIOUS MATERIAL AS REQUIRED TO CONSTRUCT THE CONTRACT WORK. ALL SUCH EXCESS MATERIAL GENERATED SHALL BE DISPOSED OF FROM THE SITE BY THE CONTRACTOR.
- THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FOR ANY WORK DONE WITHIN THE CITY RIGHT-OF-WAY FROM THE CITY OF STOCKTON PUBLIC WORKS DEPARTMENT, AND NOTIFY THE CITY 48 HOURS IN ADVANCE OF STARTING ANY WORK TO BE ACCEPTED FOR OWNERSHIP AND MAINTENANCE BY THE CITY OF STOCKTON.
- EXISTING UTILITIES ARE SHOWN AS THEY ARE BELIEVED TO EXIST. THE OWNER AND THE ENGINEER DO NOT ACCEPT RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL HAVE EACH UTILITY COMPANY ACCURATELY LOCATE IN THE FIELD THEIR MAINS AND SERVICE LINES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES.
- ATTENTION IS CALLED TO: SECTION 1540 (A) (1) OF THE CONSTRUCTION SAFETY ORDERS (TITLE 8 CALIFORNIA ADMINISTRATION CODE SECTION 1540), ISSUED BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT OF 1973, AS AMENDED, WHICH STATES:

"PRIOR TO OPENING AN EXCAVATION, EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATION I.E., SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED AND, IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING AND WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION."
- PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE IN THE FIELD THEIR MAIN SERVICE LINES. THE CONTRACTOR SHALL NOTIFY MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) 48 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER (800-227-2600).
- THE CONTRACTOR SHALL CHECK WITH THE UTILITY COMPANIES AND VERIFY ALL UTILITY LOCATIONS. IT SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF HIS CONTRACT. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICES TO THE DEVELOPMENT.
- WHENEVER EXISTING PAVEMENT IS BROKEN OR CUT DURING THE INSTALLATION OF THE WORK COVERED BY THESE PLANS AND SPECIFICATIONS, THE PAVEMENT SHALL BE REPLACED WITH PAVEMENT MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL PAVING. THE FINISHED PAVEMENT SHALL BE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER IF LOCATED WITHIN CITY RIGHT-OF-WAY. CONTRACTOR SHALL CREATE A VIDEO RECORD OF THE CONDITIONS OF ALL EXISTING PAVED AREAS PRIOR TO STARTING WORK.
- PAYMENT FOR PAVEMENT WILL BE MADE FOR THE AREAS SHOWN ON THE PLANS. REPLACEMENT OF PAVEMENT WHICH IS BROKEN OR CUT IN THE INSTALLATION OF THE IMPROVEMENTS COVERED BY THESE PLANS AND SPECIFICATIONS, AND WHICH LIES OUTSIDE OF SAID AREAS, SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE FOR PAVEMENT, AND NO ADDITIONAL PAYMENT SHALL BE MADE FOR SUCH WORK.
- THE CONTRACTOR SHALL EXPOSE EXISTING STORM DRAINS, WATER MAINS, AND SANITARY SEWERS WHERE CONNECTIONS AND CROSSINGS ARE TO BE MADE SO EXISTING FLOWLINES AND LOCATIONS CAN BE VERIFIED BEFORE THE START OF CONSTRUCTION.
- THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT FOR THIS SERVICE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION STAKING. CONSTRUCTION STAKING IS NORMALLY PERFORMED BY THE ENGINEER WHO PREPARED THE PLAN. THIS PERMITS APPROPRIATE ON-SITE INTERPRETATION AND ADJUSTMENT OF THE PLANS, IF NECESSARY. CONTRACTOR SHALL NOTIFY THE ENGINEER FORTY-EIGHT (48) HOURS PRIOR TO THE ACTUAL NEED FOR STAKING. ANY STAKING REQUESTED BY THE CONTRACTOR OR HIS SUBCONTRACTORS WHICH EXTENDS BEYOND THE ORIGINAL SCOPE OF WORK DEFINED IN THESE PLANS SHALL BE SUBJECT TO AN EXTRA WORK CHARGE TO THE CONTRACTOR. THIS NOTE GIVES FORMAL NOTICE THAT THE FIRM OF SIEGFRIED ENGINEERING, INC. CANNOT, AND WILL NOT, TAKE RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED OR DETECTED AND/OR CORRECTED OR MITIGATED HAD SIEGFRIED ENGINEERING, INC. PERFORMED THE CONTRACT STAKING WORK.

- THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE CITY OF STOCKTON FOR USE OF WATER FROM FIRE HYDRANTS FOR CONSTRUCTION PURPOSES. THE PERMIT SHALL BE APPROVED BY THE CITY OF STOCKTON FIRE DEPARTMENT. **AND OBTAINED THROUGH THE CITY PERMIT CENTER**
- THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF THE CALIFORNIA GENERAL CONSTRUCTION ACTIVITY STORM WATER PERMIT AND STATE WATER RESOURCES CONTROL BOARD ORDER NUMBER 99-08-DWQ 3. COMPLIANCE IS MANDATORY PER THE CITY OF STOCKTON'S GRADING AND EROSION CONTROL ORDINANCE, TITLE 15, CHAPTERS 15 THROUGH 48 OF THE STOCKTON MUNICIPAL CODE. **CONTACT ROGO RAMIREZ (209-933-1449) (CITY STORM WATER POLLUTION PREVENTION INSPECTOR) TWO WEEKS PRIOR TO START DATE. UPDATE MUD CONTACT**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT AND A GRADING AND EROSION CONTROL PERMIT PRIOR TO STARTING ANY WORK, UNLESS OTHERWISE APPROVED BY THE CITY.
- DUST CONTROL SHALL BE PERFORMED AT ALL TIMES, AT THE CONTRACTORS' EXPENSE, TO MINIMIZE ANY DUST NUISANCE AND SHALL BE IN ACCORDANCE WITH SECTION 10 OF CALTRANS STANDARD SPECIFICATIONS AND THE REQUIREMENTS OF THE CITY OF STOCKTON.
- THE CONTRACTOR SHALL FURNISH, INSTALL OPERATE AND MAINTAIN ALL MACHINERY, APPLIANCES AND EQUIPMENT TO MAINTAIN ALL EXCAVATIONS FREE FROM WATER DURING CONSTRUCTION, AND SHALL DEWATER AND DISPOSE OF THE WATER SO AS TO NOT CAUSE INJURY TO PUBLIC OR PRIVATE PROPERTY, OR TO CAUSE A NUISANCE OR MENACE TO THE PUBLIC. THE DEWATERING SYSTEM SHALL BE INSTALLED AND OPERATED SO THE GROUNDWATER LEVEL OUTSIDE THE EXCAVATION IS NOT REDUCED TO THE EXTENT WHICH WOULD CAUSE DAMAGE OR ENDANGER ADJACENT STRUCTURES OR PROPERTY. ALL COSTS FOR DEWATERING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ALL PIPE CONSTRUCTION. THE STATIC WATER LEVEL SHALL BE DRAWN DOWN A MINIMUM OF 1 FOOT BELOW THE BOTTOM OF EXCAVATION OF ANY FILL TO THE SPECIFIED DENSITY. DISPOSAL OF WATER SHALL BE IN ACCORDANCE WITH THE APPROVED SWPPP AND SHALL NOT VIOLATE THE LAW. THE CONTRACTOR SHALL HAVE GOOD WORKING CONDITION FOR EMERGENCIES AND THE DEWATERING SYSTEM SHALL OPERATE TO 1 FOOT ABOVE THE NORMAL STATIC
- SITE PREPARATION SHALL INCLUDE STRIPPING AND REMOVAL OF ALL VEGETATION AND ANY DEBRIS FROM THE CONSTRUCTION AREAS. SPRAY ALL GRASS AND WEEDS TO BE REMOVED WITH WEED CONTROL CHEMICALS AS RECOMMENDED BY A PEST CONTROL OPERATOR LICENSED IN THE STATE OF CALIFORNIA. STRIP ALL ORGANIC AND VEGETABLE MATTER FROM UNPAVED AREAS TO BE IMPROVED TO A DEPTH SUFFICIENT TO REMOVE SUCH MATERIAL. THE CONTRACTOR SHALL PROTECT SURROUNDING AREAS FROM DAMAGE BY EQUIPMENT OR CONSTRUCTION OPERATIONS. EXISTING PAVING SHALL BE INCORPORATED INTO THE STRUCTURAL FILL AND ALL OTHER STRIPPED VEGETATION AND DEBRIS SHALL NOT BE INCORPORATED IN ANY OF THE STRUCTURAL FILLS.
- ANY VOIDS LEFT BY THE REMOVAL OF UNDERGROUND UTILITIES OR OTHER BURIED OBJECTS SHALL BE CLEANED OF ALL LOOSE SOILS AND SHALL BE PROPERLY BACKFILLED WITH ENGINEERED FILL.
- ANY SOFT OR LOOSE SOIL POCKETS FOUND ON SITE DURING THE STRIPPING OR RECOMPACTION PROCESS, THEY SHALL BE OVER EXCAVATED AND RECOMPACTED.
- ENGINEERED FILL SHALL BE PLACED IN HORIZONTAL LAYERS A MAXIMUM OF 8 INCHES IN LOOSE THICKNESS AND BE COMPACTED TO A MINIMUM OF 90 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY THE **OWNER'S SOIL ENGINEER**. **THE PROJECT WILL NEED A PO WITH A SOIL ENGINEER.**
- SUBGRADE SOILS UNDER EXTERIOR CONCRETE SHALL BE MOISTURE CONDITIONED PER CITY OF STOCKTON STANDARD DRAWING 250, NOTE #4.
- CONTRACTOR SHALL MAINTAIN MOISTURE CONDITION RIGHT UP TO POURING OF CONCRETE.

GRADING NOTES

- GRADING AND LAND STABILIZATION SHALL INCLUDE COST OF DEWATERING; REMOVING FROM THE SITE ALL STRIPPED VEGETATION, DEBRIS, STRUCTURES, POWER POLES, EXISTING PAVEMENT, BUILDINGS, TREES, AND OTHER DELETERIOUS MATERIALS.
- IF ANY EXISTING DELETERIOUS MATERIAL IS FOUND, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR PROPER DISPOSAL. **"DELETERIOUS MATERIAL" SUBJECT TO DETERMINATION BY CITY PROJECT MANAGER**
- ALL IMPORTED FILL SHALL BE APPROVED BY THE CITY.

SPECIFICATIONS FOR PVC AND ABS PIPE

- PVC STORM PIPE SHALL BE IN ACCORDANCE WITH CITY OF STOCKTON STANDARDS, SECTION 71.
- ALL STORM PIPE BEDDING SHALL BE ACCORDING TO CITY OF STOCKTON STANDARDS SECTION 71-1.04.
- STORM PIPE SHALL BE INSPECTED BY CITY **PLUMBING INSPECTOR** DURING INSTALLATION AND PRIOR TO BACKFILL.

SPECIFICATIONS FOR MAINTENANCE HOLES

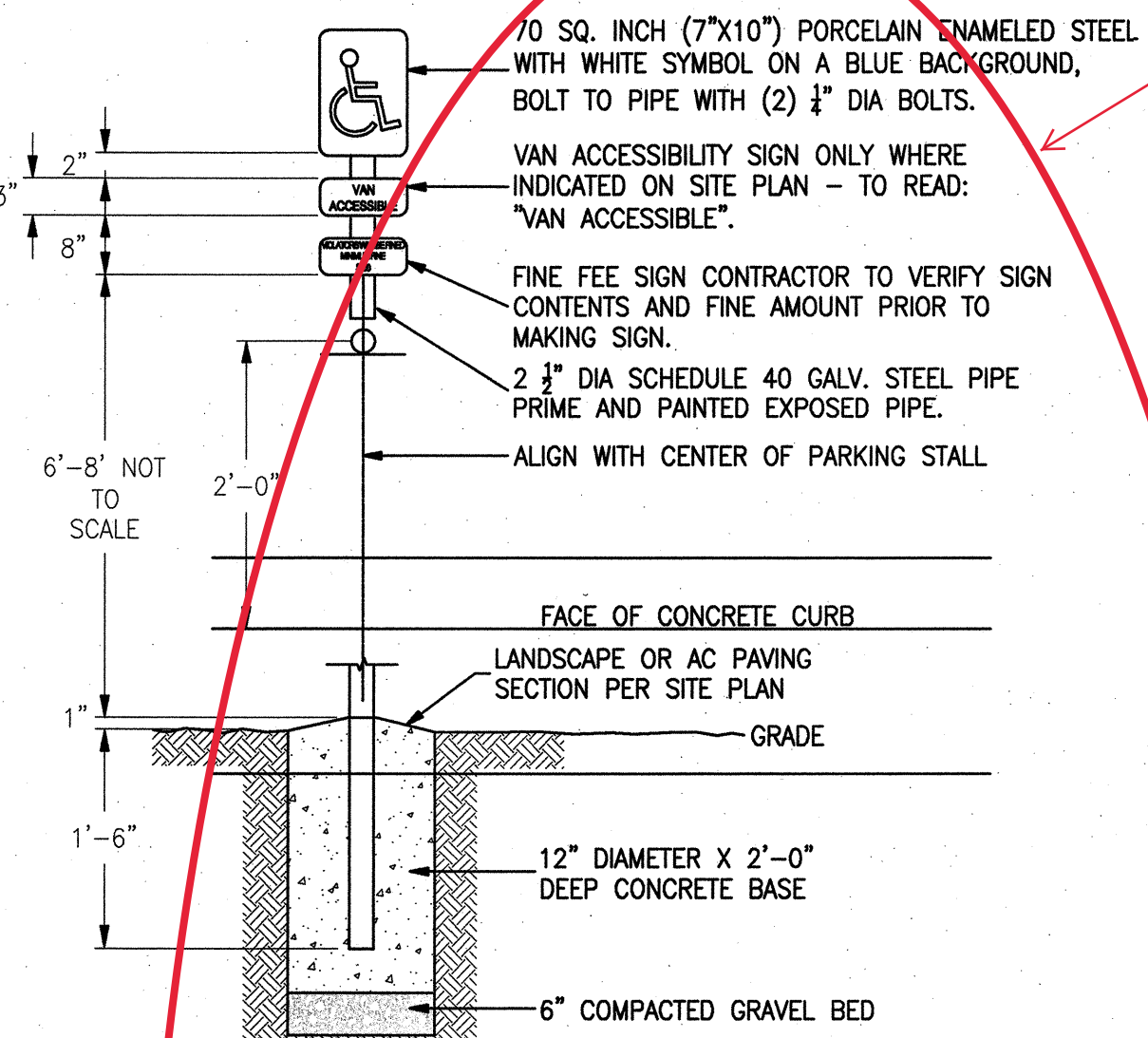
- MAINTENANCE HOLES SHALL BE CONSTRUCTED (GROUTED) SUCH THAT NO INFILTRATION OR EXFILTRATION WILL OCCUR AT ANY JOINTS OR LIFT HOLES. ALL INFILTRATION SHALL BE CORRECTED PRIOR TO PAINTING OR COATING.
- WHERE THE EXISTING FOUNDATION IS WET OR NORMALLY WET PRIOR TO DEWATERING, THE MAINTENANCE HOLE BASE SHALL BE INSTALLED ON A BEDDING OF MINIMUM 6" THICKNESS OF CRUSHED, EVENLY GRADED ROCK MEETING ASTM C33, GRADATION 67 SPECIFICATIONS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO SEE THAT THIS TYPE BEDDING ROCK DOES NOT JEOPARDIZE THE POLYTHYLENE SLEEVE WHERE SUCH SLEEVE IS PRESENT.
- MAINTENANCE HOLES SHALL BE INSPECTED BY CITY **PLUMBING INSPECTOR** DURING INSTALLATION AND PRIOR TO USE.

SPECIFICATIONS FOR INITIAL BACKFILL (ALL TRENCHES)

- ALL TRENCH EXCAVATIONS SHALL BE IN ACCORDANCE WITH THE CITY OF STOCKTON STANDARD SPECIFICATION 7-1.01E, AS WELL AS C.O.S. STD DWG. 51A
- JETTING SHALL NOT BE PERMITTED.

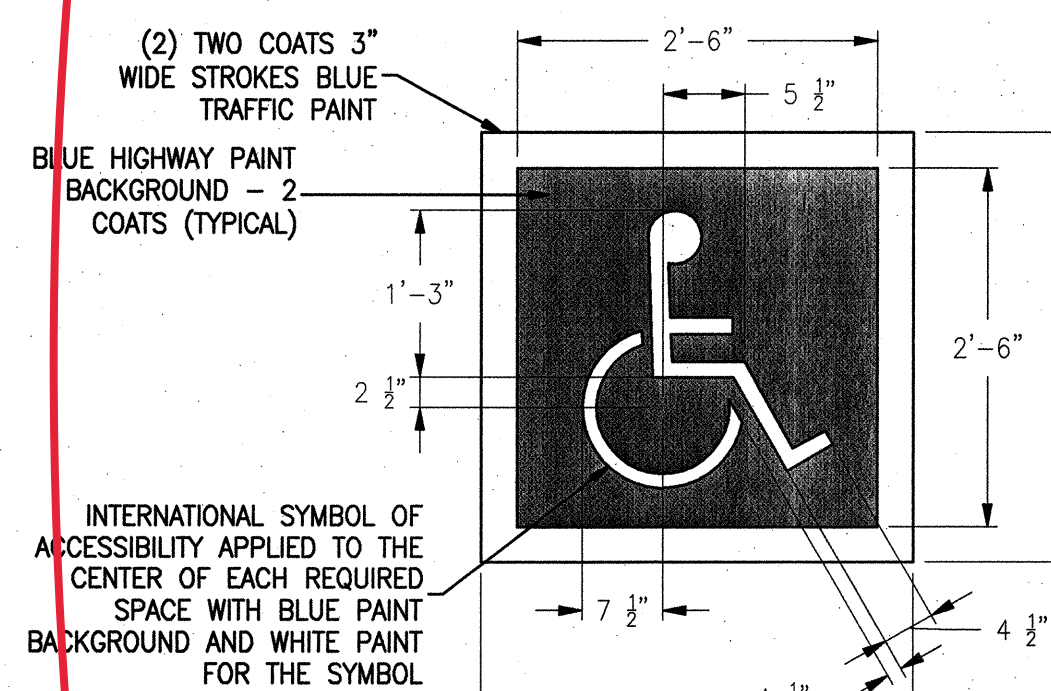
PIPE TABLE

TYPE OF PIPE	PIPE DIAMETER	TYPE & CLASS	BEDDING AND BACKFILL
STORM DRAIN	12"	SDR-35 PVC ASTM 3034 OR HDPE PER C.O.S. STDS. SECTION 71 (TYP.)	PER C.O.S. STDS. SECTION 71-1.03, 71-1.04, AND 71-1.05



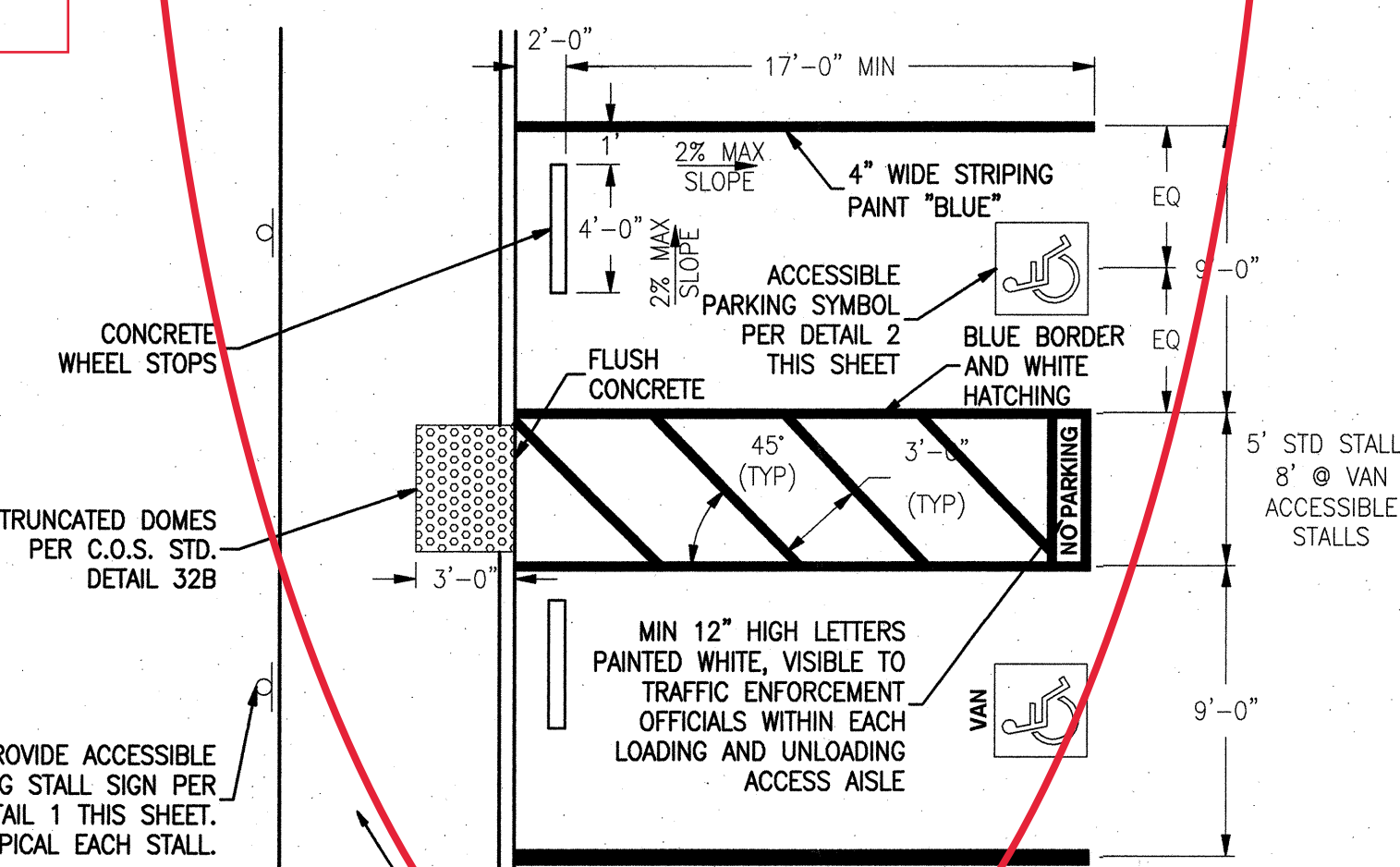
1 PARKING STALL SIGNAGE

SCALE: NTS



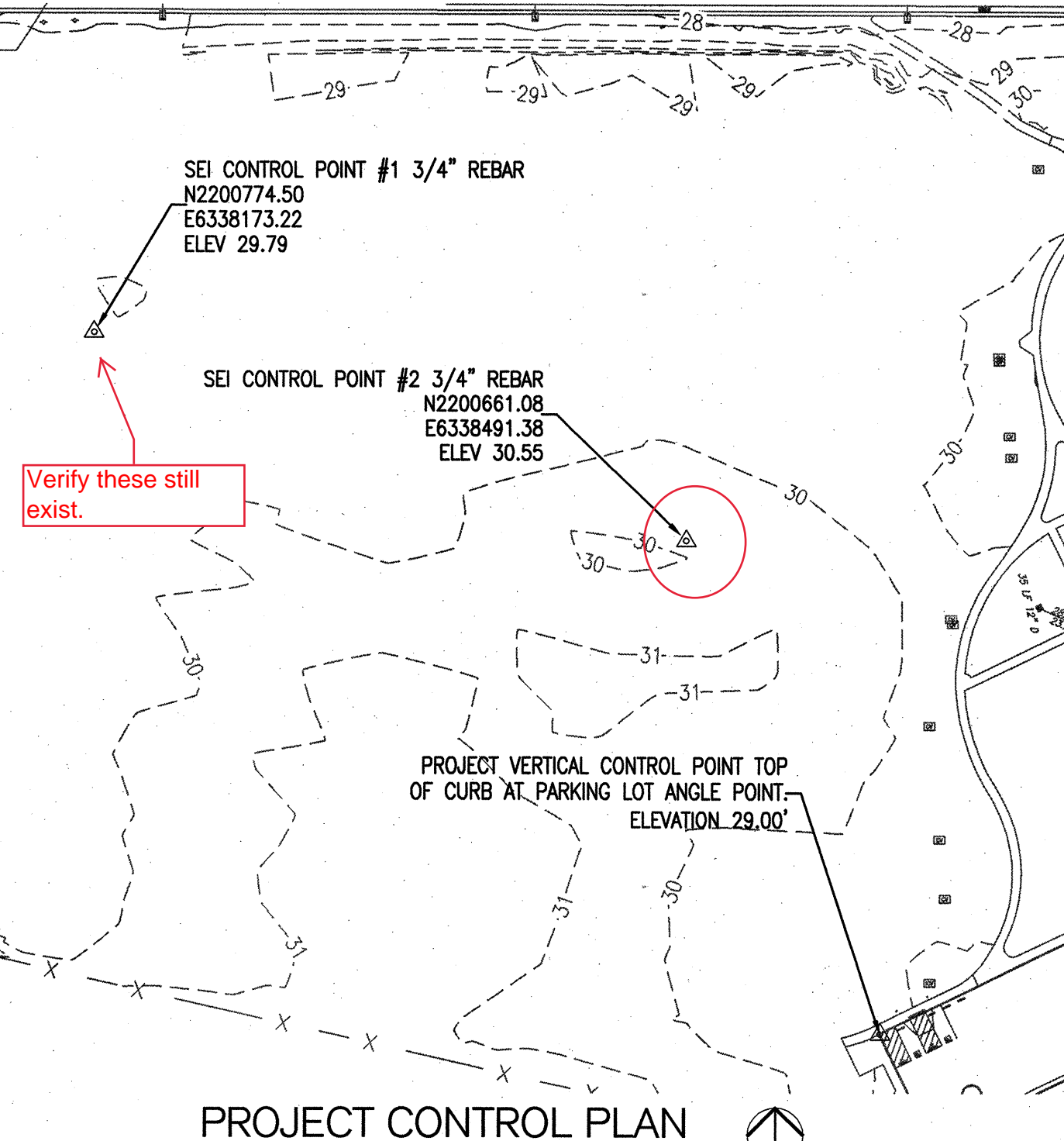
2 ACCESSIBLE PARKING SYMBOL

SCALE: NTS



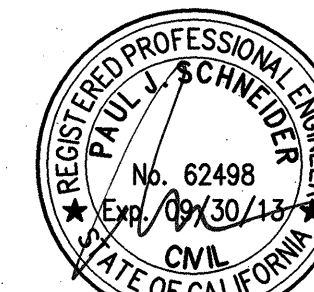
3 ACCESSIBLE PARKING

SCALE: NTS



LEGEND

EXISTING	PROPOSED
— E — E —	— E — E —
3.0	3.0
15.50	15.50
TOW	TW
15.50	15.50
EFL	FL
15.50	15.50
ETC	TC
— 8\"/>	



DATE SIGNED: 05/07/12

MATT EQUINOA PARK PHASE II

GENERAL NOTES AND SPECIFICATIONS

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

DESIGNED BY	R.N.	APPROVED BY:	7/12/12	SHEET NO.	C10
DRAWN BY	R.N.	DATE			2 OF 28 SHEETS
CHECKED BY	PJS				
RECORD DWGS.					

CITY LANDSCAPE ARCHITECT
STOCKTON, CALIFORNIA

PROJECT NO.



BENCHMARK:
PER ONSITE CONTROL PLAN ON SHEET C1.0

SIEGFRIED
3244 Brookside Road, Suite 100 Stockton, California 95219
209-948-2021 www.siegfriedeng.com Fax: 209-942-0214

Revision No.	Description	Date	By	Apprv. By

CONSULTANT NEEDS TO VERIFY THESE STANDARDS HAVE NOT CHANGED.

Verify these still exist.

PERMIT CENTER

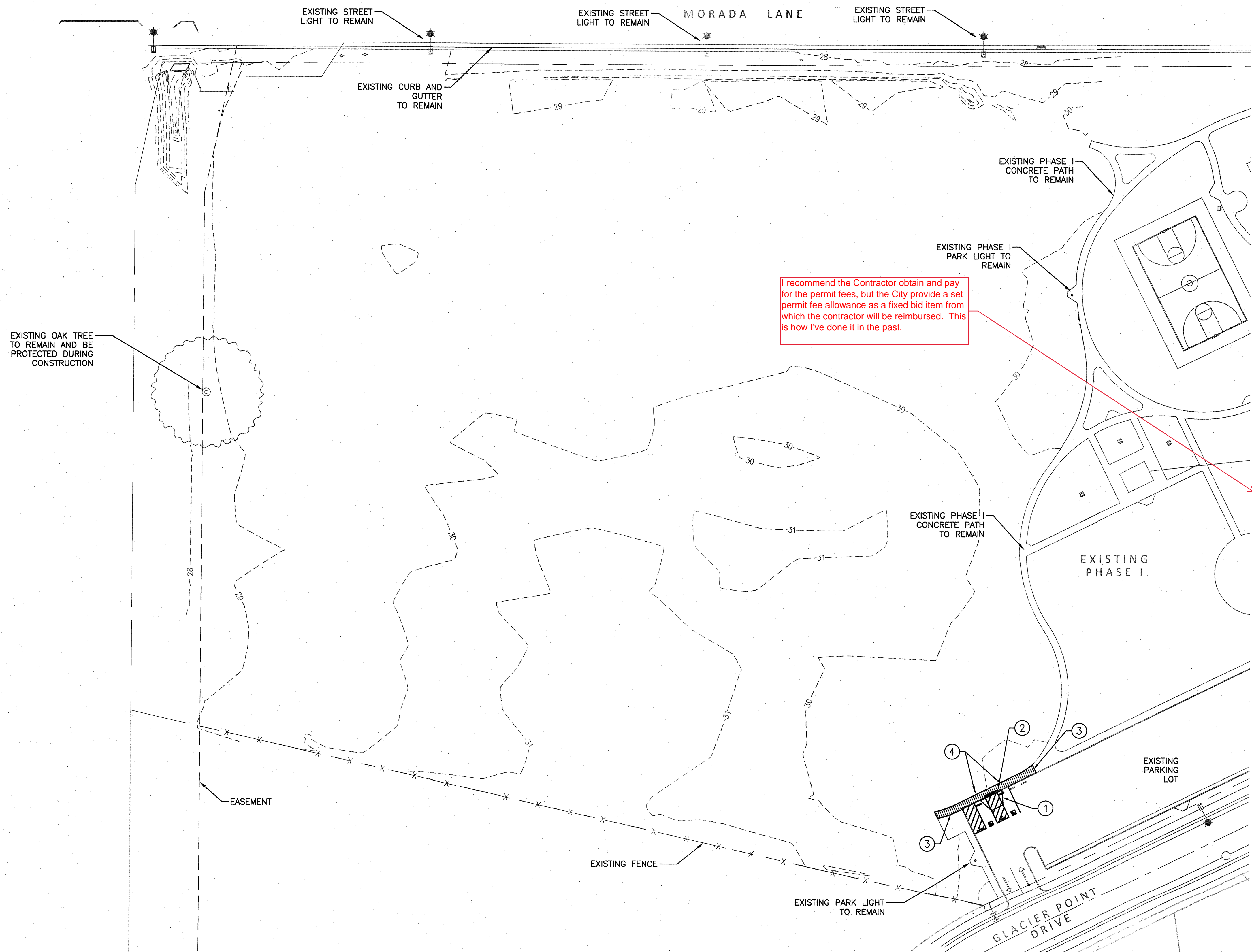
EXISTING PHASE I PARK IMPROVEMENT ELECTRICAL CONDUIT STUB OUTS, IRRIGATION MAIN STUB OUTS AND IRRIGATION VALVES AND ANY DRAINAGE STUB OUTS SHALL BE LOCATED BY THE CONTRACTOR.

THE PROJECT WILL NEED A PO WITH A SOIL ENGINEER.

"DELETERIOUS MATERIAL" SUBJECT TO DETERMINATION BY CITY PROJECT MANAGER

PUBLIC WORKS INSPECTOR

VERIFY SEI WILL PROVIDE CONSTRUCTION STAKING AND REQUEST A NEW PO FOR THIS SERVICE.

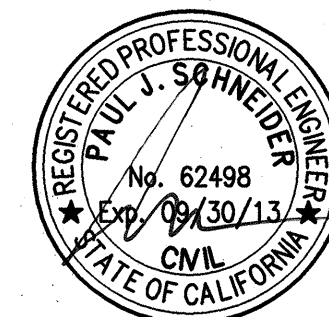


DEMOLITION NOTES:

1. ALL EXISTING UTILITIES, LANDSCAPING FEATURES, AND AMENITIES TO REMAIN SHALL BE PROTECTED IN PLACE DURING CONSTRUCTION. ANY UTILITIES, LANDSCAPING FEATURES AND/OR AMENITIES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO LIKE OR BETTER CONDITION BY THE CONTRACTOR.
2. SAW CUT TO A NEAT AND CLEAN LINE TO MATCH NEW PAVING. REFER TO SHEET C3.0 FOR NEW PAVING AND SAW CUT DETAILS.
3. SAW CUT LINES SHOWN ON THIS PLAN ARE APPROXIMATE. PRIOR TO BID AND CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL EXISTING GRADES.
4. ALL UTILITY TRENCHES SHALL BE BACK-FILLED TO A FIRM AND UNYIELDING CONDITION
5. ALL DEMOLITION SHALL BE COORDINATED WITH THE OTHER PLAN SET SHEETS. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN SAFE ACCESS FOR PEDESTRIAN AND VEHICLE TRAFFIC. THE CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES TO THE SURROUNDING FACILITIES.
6. EROSION CONTROL SHALL BE IN PLACE PRIOR TO ANY SOIL DISTURBANCE, INCLUDING PAVEMENT REMOVAL.
7. ALL SIDEWALKS, SLABS, FOUNDATION AND MISCELLANEOUS DEMOLITION SHALL BE SPOILED OFF-SITE AND RECYCLED PER CITY STANDARDS. NO BURNING OF DEBRIS SHALL BE ALLOWED. PAVEMENT MILLINGS OR CRUSHED CONCRETE PAVEMENT WILL BE ALLOWED AS FILL OR FOR REUSE AS SUBBASE ONLY AFTER REVIEW BY THE PROJECT GEOTECHNICAL ENGINEER. NO GARBAGE, ORGANICS OR OTHER DEBRIS SHALL BE ALLOWED AS FILL. FILL SHALL BE PLACED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT.
8. ALL EXISTING ON-SITE UTILITIES SHALL REMAIN UNLESS DESIGNATED FOR REMOVAL OR SHOULD THEY INTERFERE WITH PROJECT CONSTRUCTION. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES TO REMAIN.
9. MAINTENANCE HOLES, CATCH BASINS, CLEAN OUTS, VALVE BOXES, FRAMES, COVERS AND GRATES REMAINING IN USE SHALL BE PROTECTED AND ADJUSTED TO FINAL GRADES.
10. ABANDONMENT OF UTILITIES IN-PLACE SHALL NOT BE ALLOWED.
11. ALL UTILITIES SHOWN TO BE REMOVED SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.
12. FOR ALL UTILITY LINES AND STRUCTURES DESIGNATED TO BE REMOVED, PLACE AND COMPACT STRUCTURAL BACKFILL WITHIN TRENCH.
13. THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES ASSOCIATED WITH ALL PERMITS NECESSARY TO COMPLETE THE WORK.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITIES SHOWN ON THIS PLAN PRIOR TO START OF ANY WORK. ANY AND ALL DISCREPANCIES ARE TO BE DOCUMENTED AND SUBMITTED TO SIEGFRIED ENGINEERING, INC. AT THE TIME OF DISCOVERY.
15. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH APPROPRIATE UTILITY COMPANIES PRIOR TO STARTING ANY WORK.
16. NOTE ALL "GHOSTED" ITEMS SHALL REMAIN.

DEMOLITION KEY NOTES:

1. REMOVE ASPHALT RAMP, BUT PRESERVE AB SUB-GRADE
2. REMOVE ±398 SQ. FT. OF CONCRETE WALKWAY. CURB SHALL REMAIN IN PLACE WITH THE EXCEPTION OF THE CURB THAT MUST BE REMOVED TO CONSTRUCT THE ACCESSIBLE RAMP ON SHEET C5.0.
3. CONCRETE SHALL BE REMOVED TO THE NEAREST RELIEF JOINT.
4. REMOVE OLD SIGN FOUNDATION AND POST.



DATE SIGNED: 05/07/12

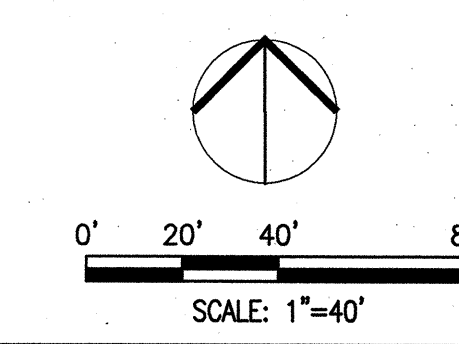
MATT EQUINOA PARK PHASE II
TOPOGRAPHY AND DEMOLITION PLAN

DEPARTMENT OF PUBLIC WORKS
 CITY OF STOCKTON, CALIFORNIA

SCALE AS SHOWN
 DESIGNED BY R.J.N.
 DRAWN BY R.J.N.
 CHECKED BY P.J.S.
 RECORD DWGS.
 APPROVED BY: 7/12/12
 DATE
 CITY LANDSCAPE ARCHITECT
 STOCKTON, CALIFORNIA
 SHEET NO. C10
 3 OF 28 SHEETS
 PROJECT NO.

SIEGFRIED
 CIVIL ENGINEERING
 STRUCTURAL ENGINEERING
 LANDSCAPE ARCHITECTURE
 SURVEYING
 3244 Brookside Road, Suite 100 Stockton, California 95219
 209-948-2021 www.siegfriedeng.com Fx: 209-942-0214

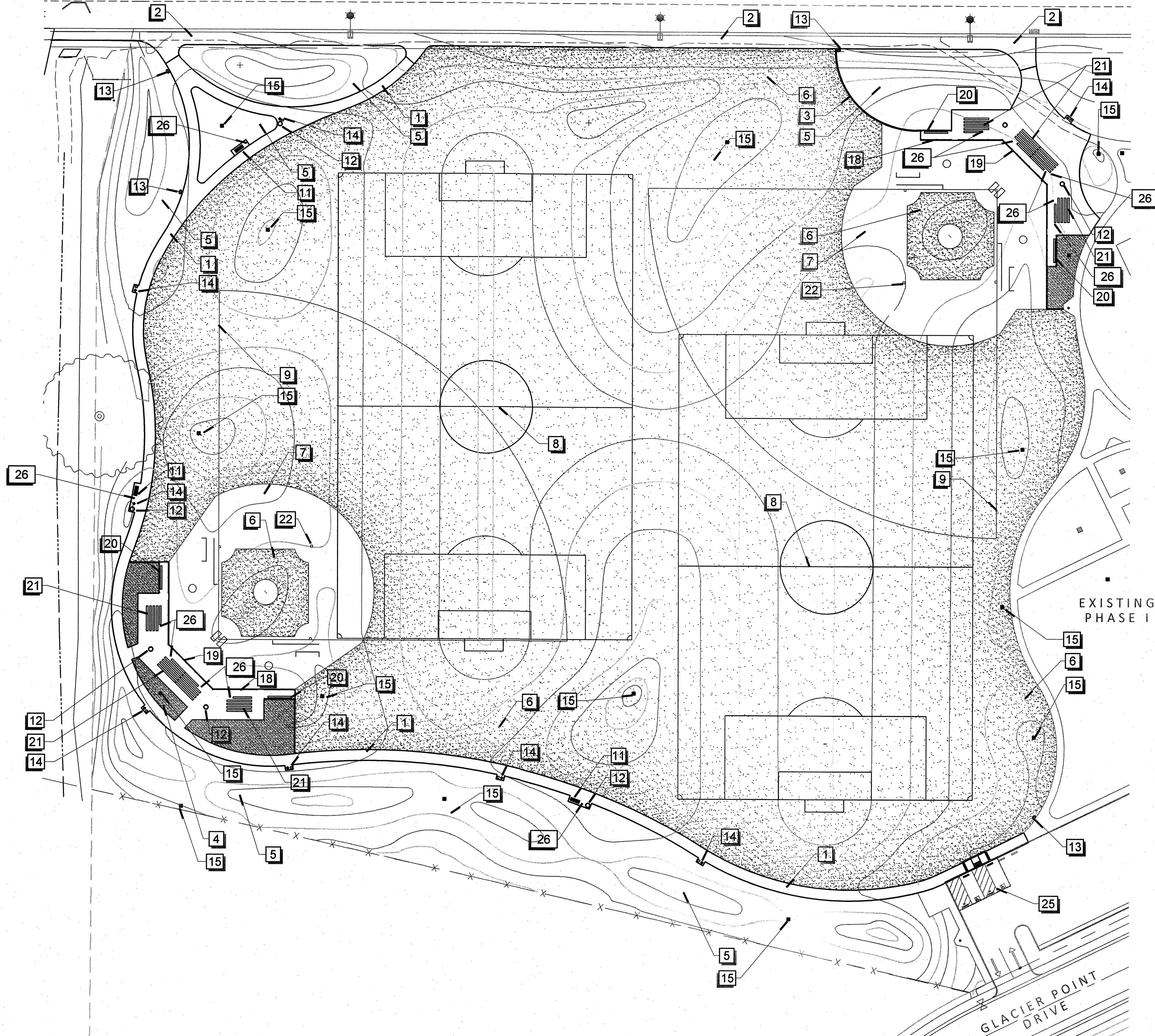
Revision No.	Description	Date	By	Apprvd By



MORADA LANE

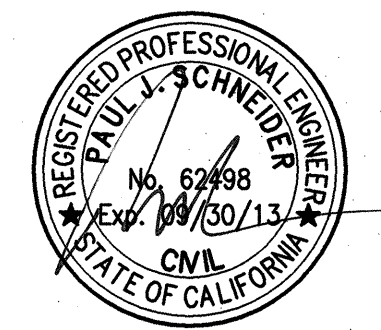
REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	QTY
1	CONCRETE PATH - Concrete park pathway system. 7'-0" width, typical. See C4.0- paving & dimensional plan for details and descriptions.	
2	POROUS CONCRETE PATH - Park perimeter path system adjacent to Morada Lane. 8'-0" wide, typical. See C4.0- paving & dimensional plan for details and descriptions.	
3	CONCRETE BAND - 6" wide flush concrete band for lawn and planting bed separation. See detail 3, sheet C4.0-paving and dimensional plan.	
4	DECOMPOSED GRANITE FINES PLANTER - Planter area to be installed with decomposed granite fines with stabilizer. 4" thick layer, typical. See detail 14, sheet L4.1- landscape details II.	
5	PLANTING AREA - Tree shrub and groundcover areas per planting plan. 3 inch bark mulch layer throughout, typical. See sheets L2.0, L3.0.	
6	TURF LAWN AREA - Hydroseeded sports turf. See sheet L3.0-planting plan for details and descriptions.	
7	SOFTBALL INFIELD MIX - Standard infield mix playing surface. Allen's processed clay 60%, 1/8" minus red cinders 40%. AA # Bob Allen, Inc. 2904 Beyer lane, Stockton, ca 95215. (209) 931-3535. See detail 5, sheet L4.0- landscape details I.	
8	SOCCER FIELDS - 63 yards x 100 yards, chalked by users.	
9	SOFTBALL FIELDS - 60 foot baseline, 225 foot outfield, standard infield mix per note 7, equipment per details.	
10	NOT USED.	
11	BENCH - 80" long backed park bench with center armrest. South Bay Foundry, surface mounted, Stockton Green. Product to match Phase I bench. See detail 8, sheet L4.0- landscape details I.	
12	TRASH RECEPTACLE - 32-gallon hinged trash receptacle. South Bay Foundry model # DTR 100 with steel liner. Surface mounted. Product to match Phase I. See detail 9, sheet L4.0- landscape details I.	
13	OUTDOOR DOG GLOVE DISPENSER - Glove dispenser kit with sign, post, case (green), 2-ply mitts, and hardware set or approved equal. www.muttmitt.com. See detail 6, sheet L4.0- landscape details I.	
14	PARK LIGHT - Security park lighting. See Park Electrical Plan, sheet E2, and Electrical Details, sheet E9 for details and descriptions.	
15	STORM WATER AREA DRAIN - Surface stormwater area catchbasin drain. See detail 1, sheet C6.0-Utility Plan.	
16	NOT USED.	
17	NOT USED.	
18	BALLFIELD FENCE - 12 foot high powder coated chainlink dugout fence. See detail 3, Sheet L4.0- landscape details I.	
19	BACKSTOP - 12' high ballfield chainlink backstop, clamshell cage top extensions and wood plank baffleboard panels. See detail 3, sheet L4.0- landscape details I.	
20	PLAYER'S DUGOUT BENCH - National Recreation Systems, Inc. 15' long. "PE" Permanent bench without back, galvanized legs. Model #BE-PE15, or approved equal, modified aluminum, surface mounted. www.bleachers.net (888) 568-9064.	
21	BLEACHERS - LA Steelcraft 4-row x 15 feet long with aluminum seats and foot boards. Model #FN204-15, or approved equal, available from Ross Recreation Equipment, P.O. box 861, Folsom, CA www.lasteelcraft.com (916) 983-3756.	
22	BASEBALL BASES Specify model and manufacturer and provide details.	
23	NOT USED.	
24	NOT USED.	
25	ADA ACCESSIBLE RAMP - Existing ADA parking stall area and accessible walkway to be modified to include a flush access walkway and ramp at ADA parking stall striping. See details 1,2,3, sheet C1.0, detail 1, sheet C5.0 for details and descriptions.	
26	ADA WHEELCHAIR PARKING - 48" minimum clearance area at bleachers, typical.	



EXISTING PHASE I

GLACIER POINT DRIVE



DATE SIGNED: 05/07/12

MATT EQUINOA PARK PHASE II

CONSTRUCTION PLAN

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

SCALE	AS SHOWN	APPROVED BY:	7/12/12	SHEET NO.	C30
DESIGNED BY	R/N	DATE		4 OF 28 SHEETS	
DRAWN BY	R/N				
CHECKED BY	PJS				
RECORD DWGS.					

CITY LANDSCAPE ARCHITECT
STOCKTON, CALIFORNIA

PROJECT NO.

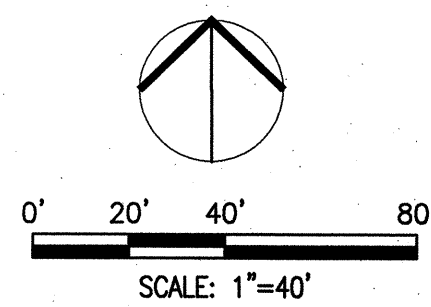


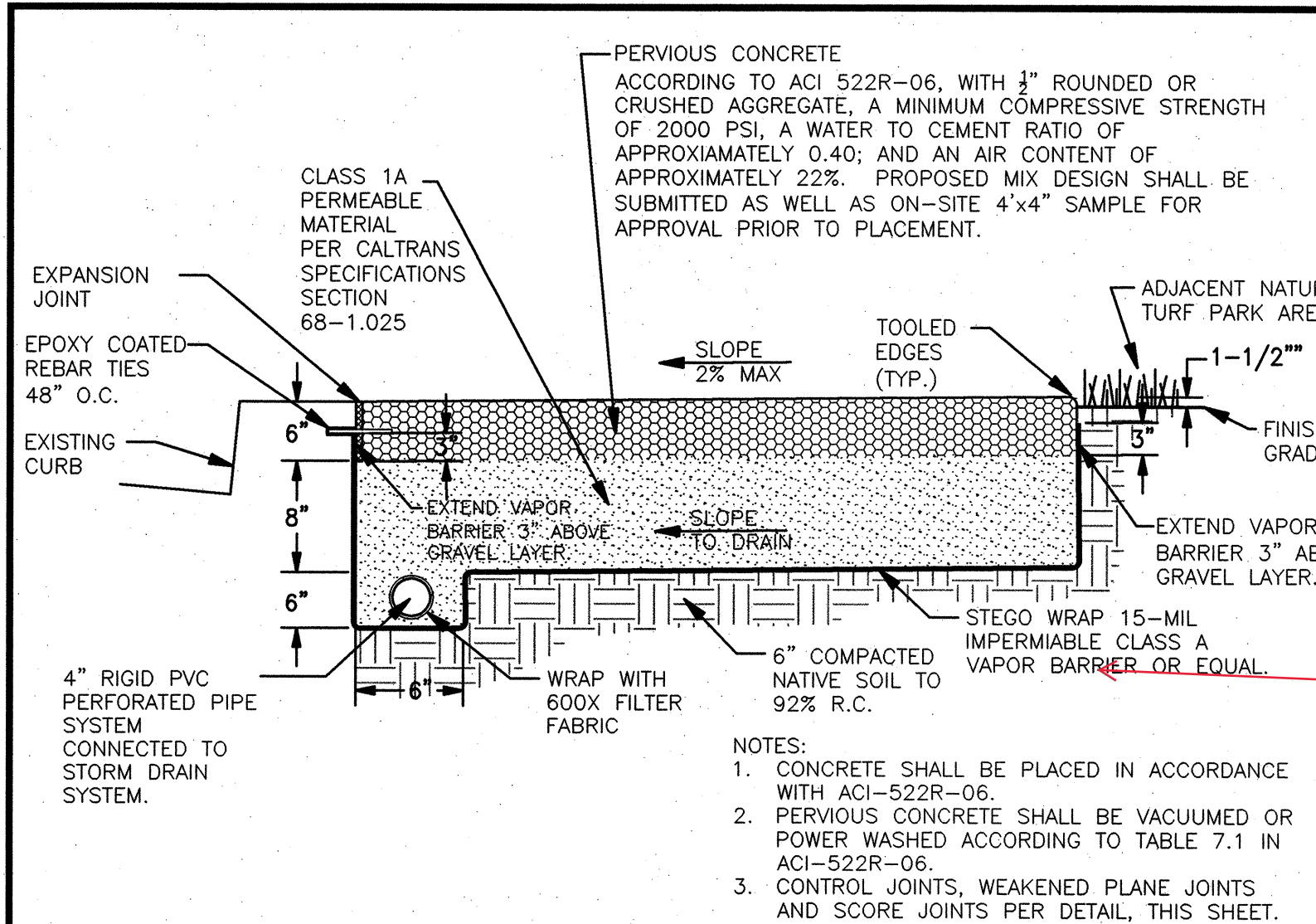
BENCHMARK:
PER ONSITE CONTROL PLAN ON SHEET C1.0

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209-948-2021 www.siegfriedeng.com Fx: 206-942-0214

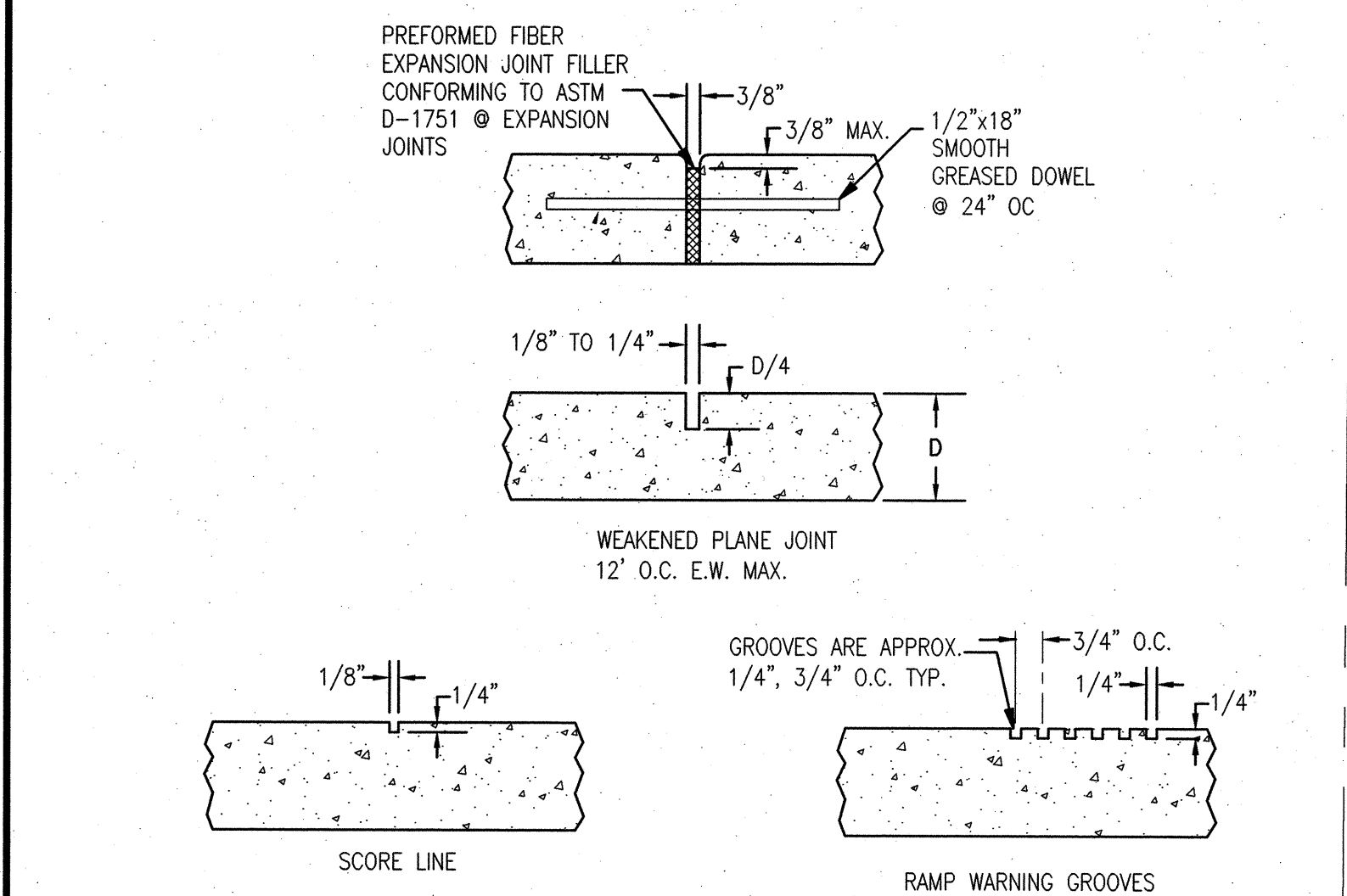
- CIVIL ENGINEERING
- STRUCTURAL ENGINEERING
- LANDSCAPE ARCHITECTURE
- SURVEYING

Revision No.	Description	Date	By	Apprd. By

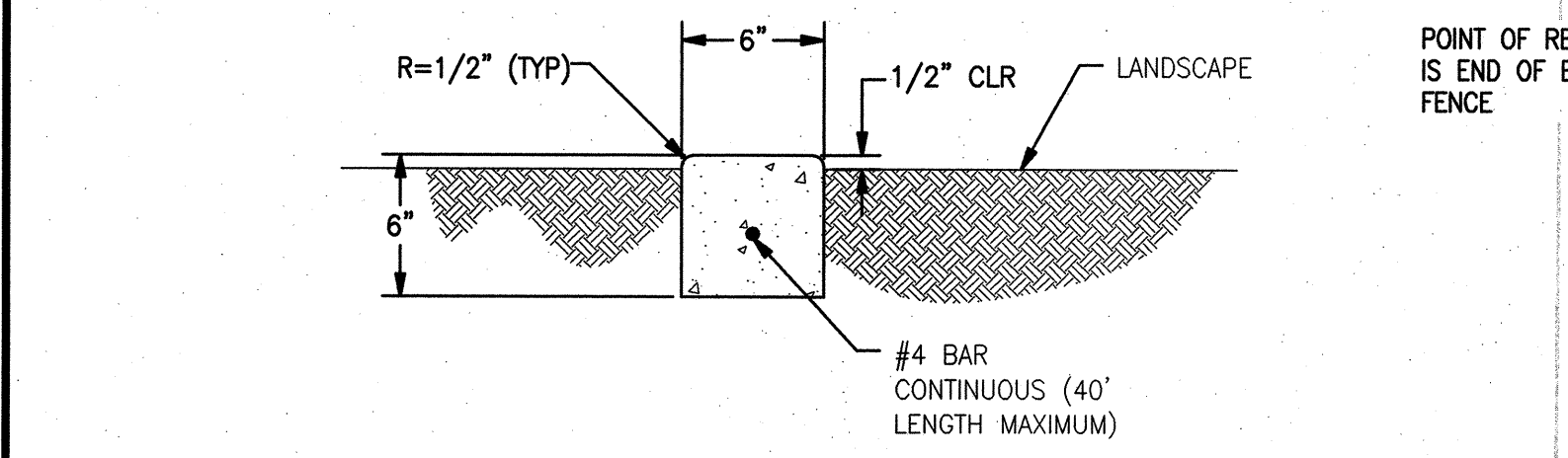




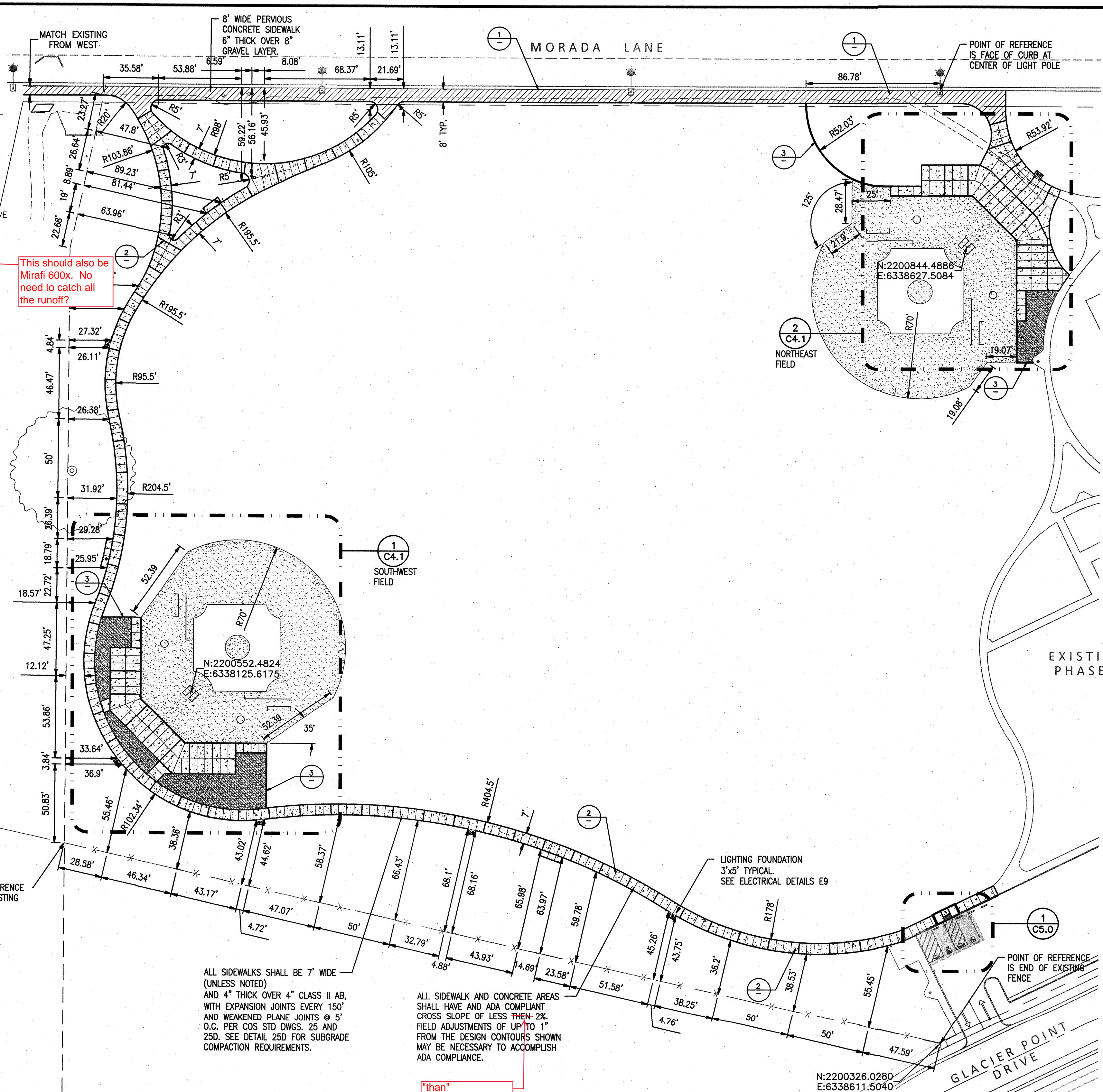
1 PERVIOUS CONCRETE WALKWAY
NTS



2 TYPICAL CONCRETE DETAILS
NTS



3 CONCRETE MOWBAND
NTS



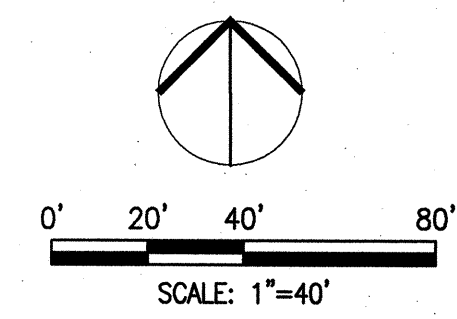
- LEGEND:**
- PERVIOUS CONCRETE FLATWORK
6" PERVIOUS CONCRETE PER
DETAIL THIS SHEET.
 - CONCRETE FLATWORK:
4" 2500 PSI P.C.C.
W/6X6/10-10 WWR OVER 4"
CLASS II AB OVER COMPACTED
SUBGRADE.
MEDIUM BROOM FINISH.
 - DECOMPOSED GRANITE FINES:
4" LAYER OF DECOMPOSED
GRANITE FINES WITH STABILIZER
OVER COMPACTED SUBGRADE.
INSTALLED IN TWO 2" LIFTS,
COMPACTED BETWEEN LIFTS.
 - SOFTBALL/BASEBALL INFIELD MIX:
STANDARD INFIELD MIX PLAYING
SURFACE. 60% PROCESSED CLAY/
40% RED CINDERS. SEE DETAILS.

NOTE:

1. SITE GRADING AND EARTHWORK ASSUMES THAT 2" OF SOIL AMENDMENTS ARE TO BE IMPORTED ONTO THE SITE.



BENCHMARK:
PER ONSITE CONTROL PLAN ON SHEET C1.0



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- LANDSCAPE ARCHITECTURE
- SURVEYING

Revision No.	Description	Date	By	Apprvd. By

MATT EQUINOA PARK PHASE II
PAVING AND DIMENSIONAL PLAN

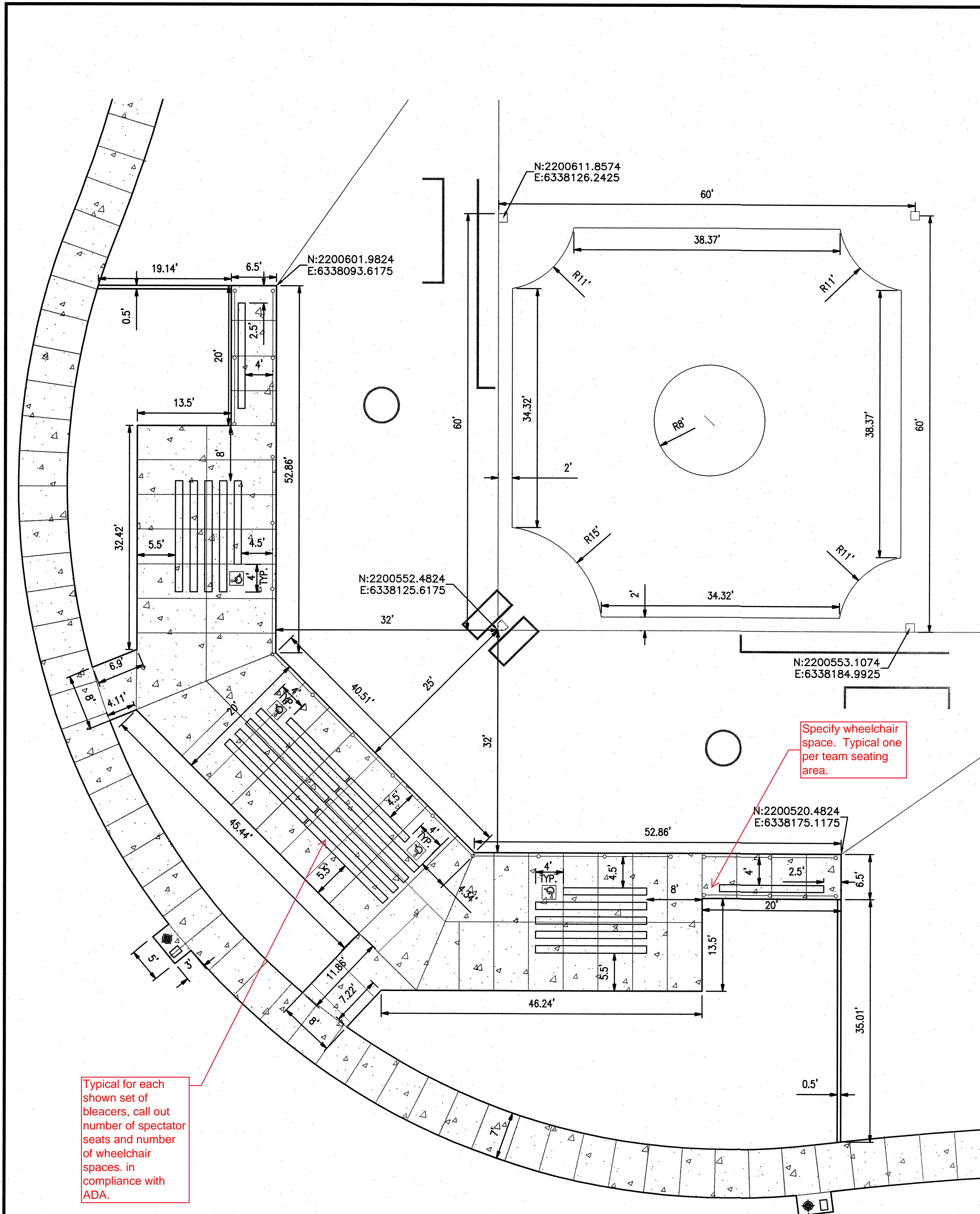
DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

SCALE: AS SHOWN
DESIGNED BY: R/N
DRAWN BY: R/N
CHECKED BY: PJS
RECORD DWGS.

APPROVED BY: [Signature]
DATE: 7/12/12

SHEET NO. CAD
5 OF 28 SHEETS
PROJECT NO.

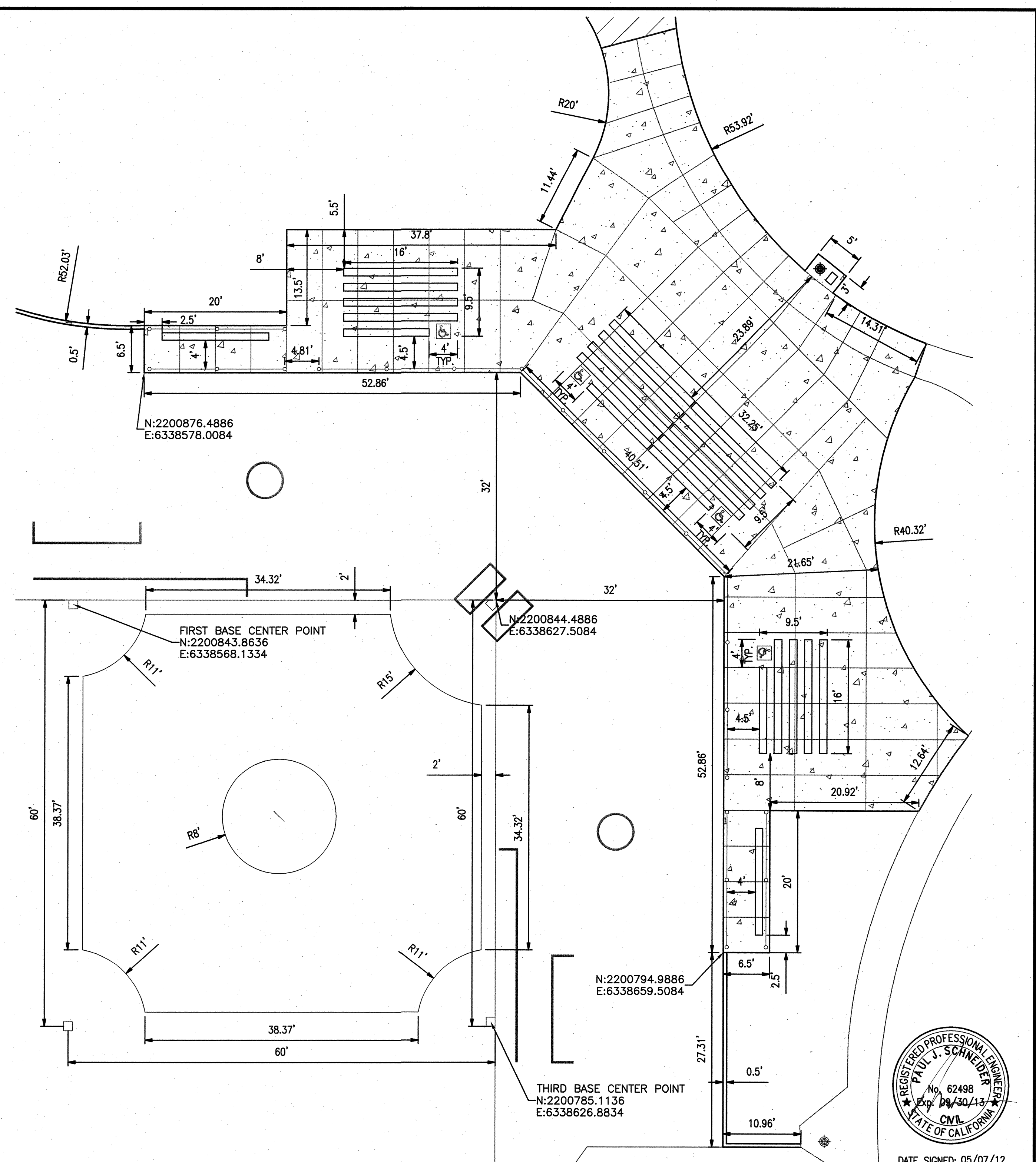
DATE SIGNED: 05/07/12



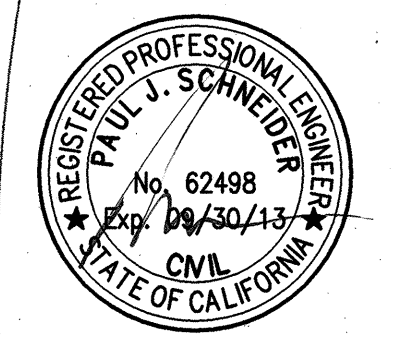
Typical for each shown set of bleachers, call out number of spectator seats and number of wheelchair spaces, in compliance with ADA.

Specify wheelchair space. Typical one per team seating area.

1 BALL FIELD DIMENSIONING DETAIL
SCALE: 1"=10'
SOUTHWEST FIELD



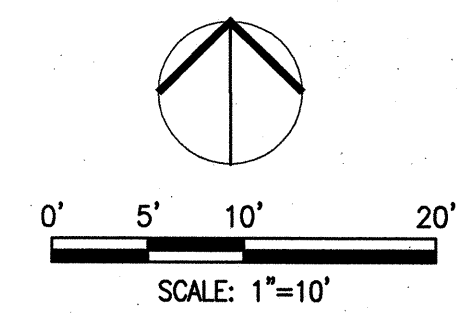
2 BALL FIELD DIMENSIONING DETAIL
SCALE: 1"=10'
NORTHEAST FIELD



DATE SIGNED: 05/07/12



BENCHMARK:
PER ONSITE CONTROL PLAN ON SHEET C1.0
800-227-2600



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- CIVIL ENGINEERING
- ELECTRICAL ENGINEERING
- STRUCTURAL ENGINEERING
- LANDSCAPE ARCHITECTURE
- SURVEYING

Revision No.	Description	Date	By	Apprvd. By

MATT EQUINOA PARK PHASE II

BALLFIELD DIMENSIONAL PLAN

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

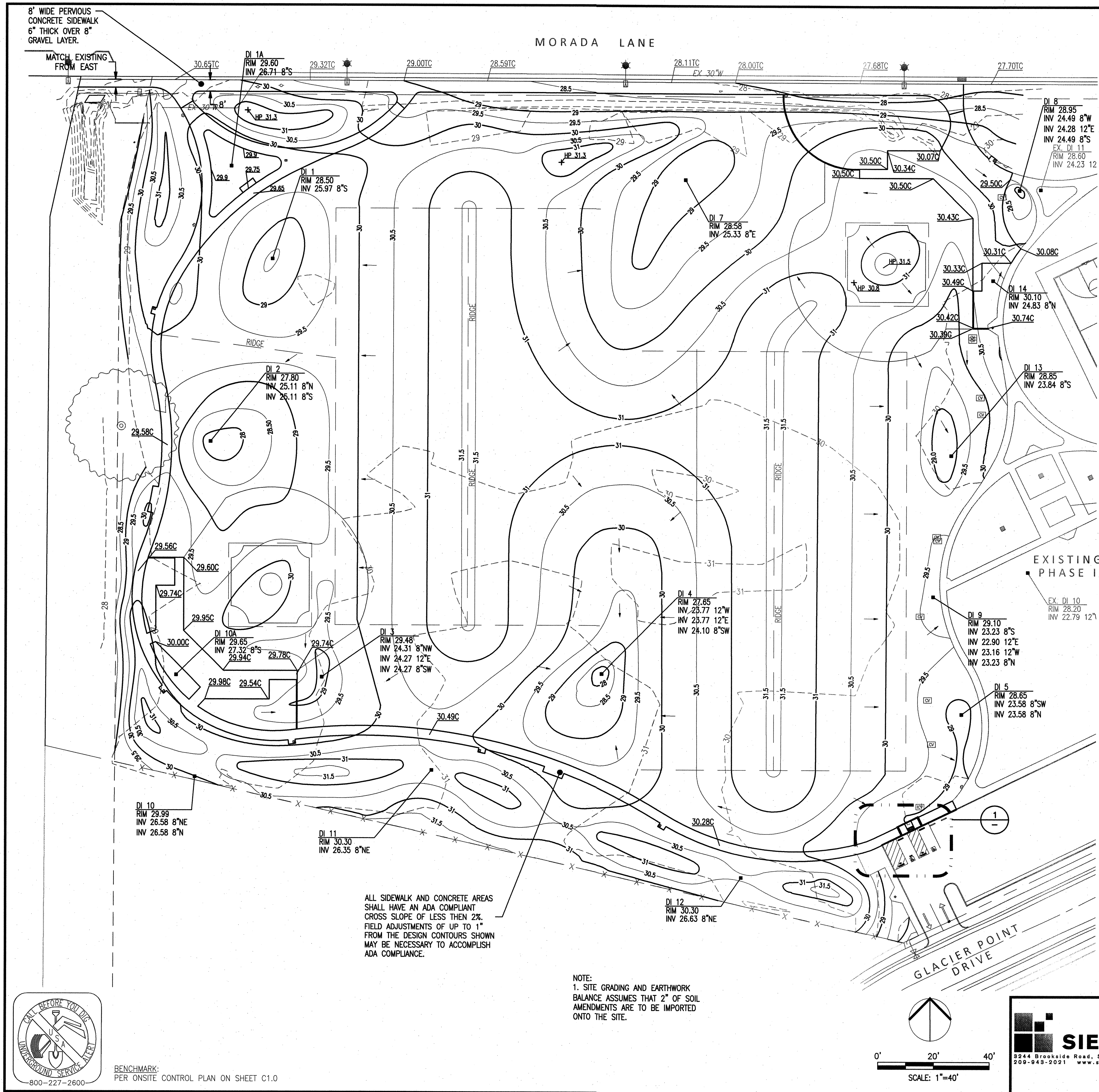
SCALE: 1"=10'

DESIGNED BY: R.N.
DRAWN BY: R.N.
CHECKED BY: P.J.S.
RECORD DWGS.

APPROVED BY: 7/12/12
DATE

SHEET NO. C41
6 OF 28 SHEETS
PROJECT NO.

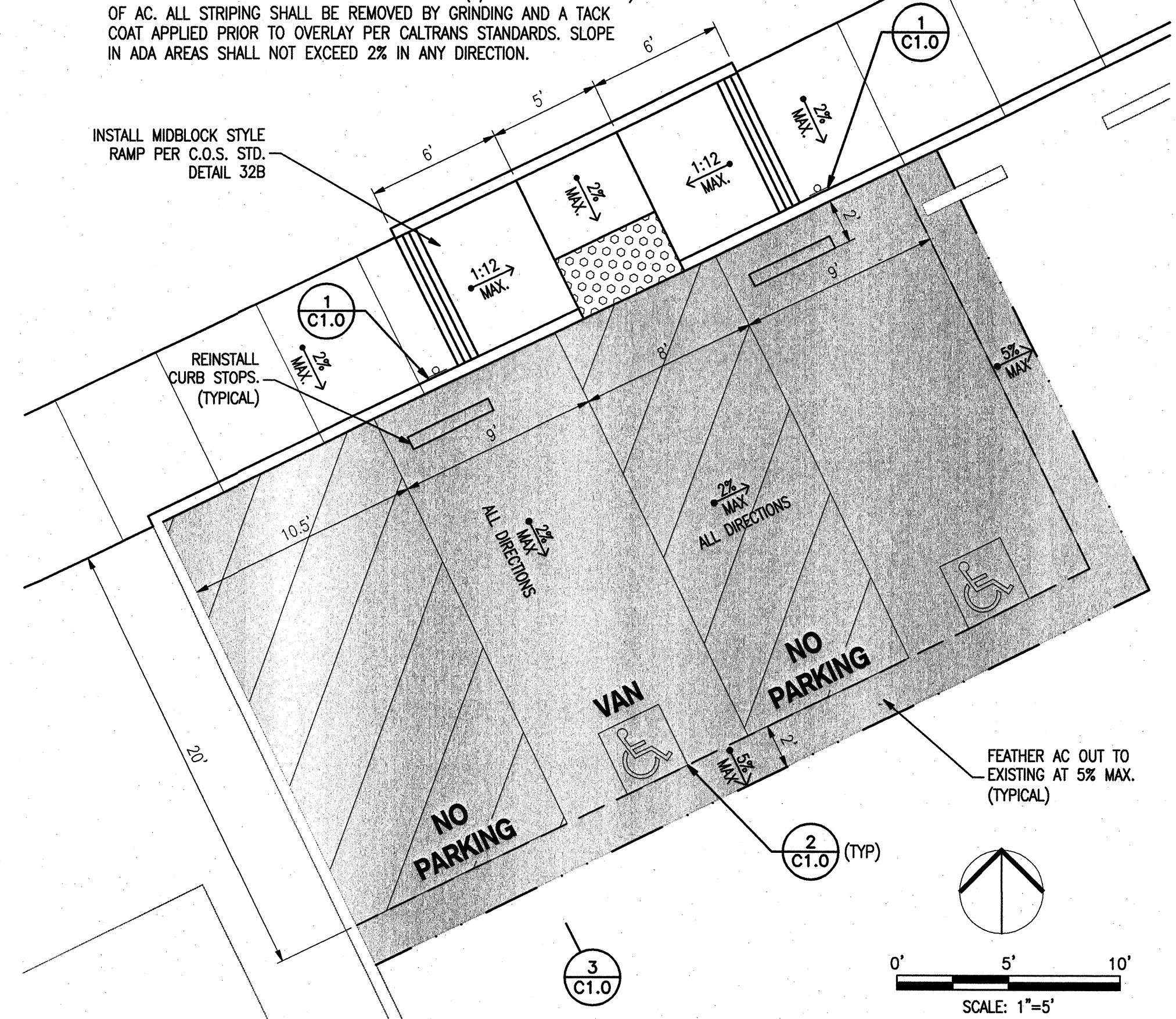
CITY LANDSCAPE ARCHITECT
STOCKTON, CALIFORNIA



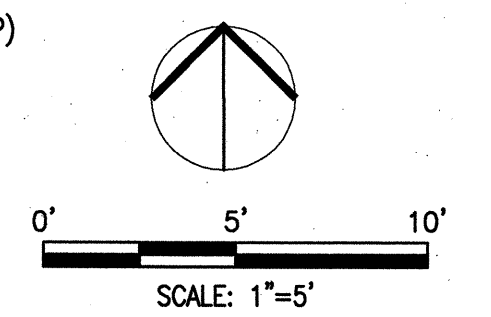
LEGEND:

AC OVERLAY
 OVERLAY EXISTING AC WITH A MINIMUM OF 1.5" (1/2" MAX AGGREGATE) OF AC. ALL STRIPING SHALL BE REMOVED BY GRINDING AND A TACK COAT APPLIED PRIOR TO OVERLAY PER CALTRANS STANDARDS. SLOPE IN ADA AREAS SHALL NOT EXCEED 2% IN ANY DIRECTION.

INSTALL MIDBLOCK STYLE RAMP PER C.O.S. STD. DETAIL 32B



1 ADA PARKING STALL DETAIL
 SCALE: 1"=5'



DATE SIGNED: 05/07/12

MATT EQUINOA PARK PHASE II
GRADING PLAN

DEPARTMENT OF PUBLIC WORKS
 CITY OF STOCKTON, CALIFORNIA

DESIGNED BY	R/N	APPROVED BY:	7/12/12	SHEET NO.	C50
DRAWN BY	R/N	DATE		7 OF 28 SHEETS	
CHECKED BY	PJS	CITY LANDSCAPE ARCHITECT			
RECORD DWGS.		STOCKTON, CALIFORNIA			

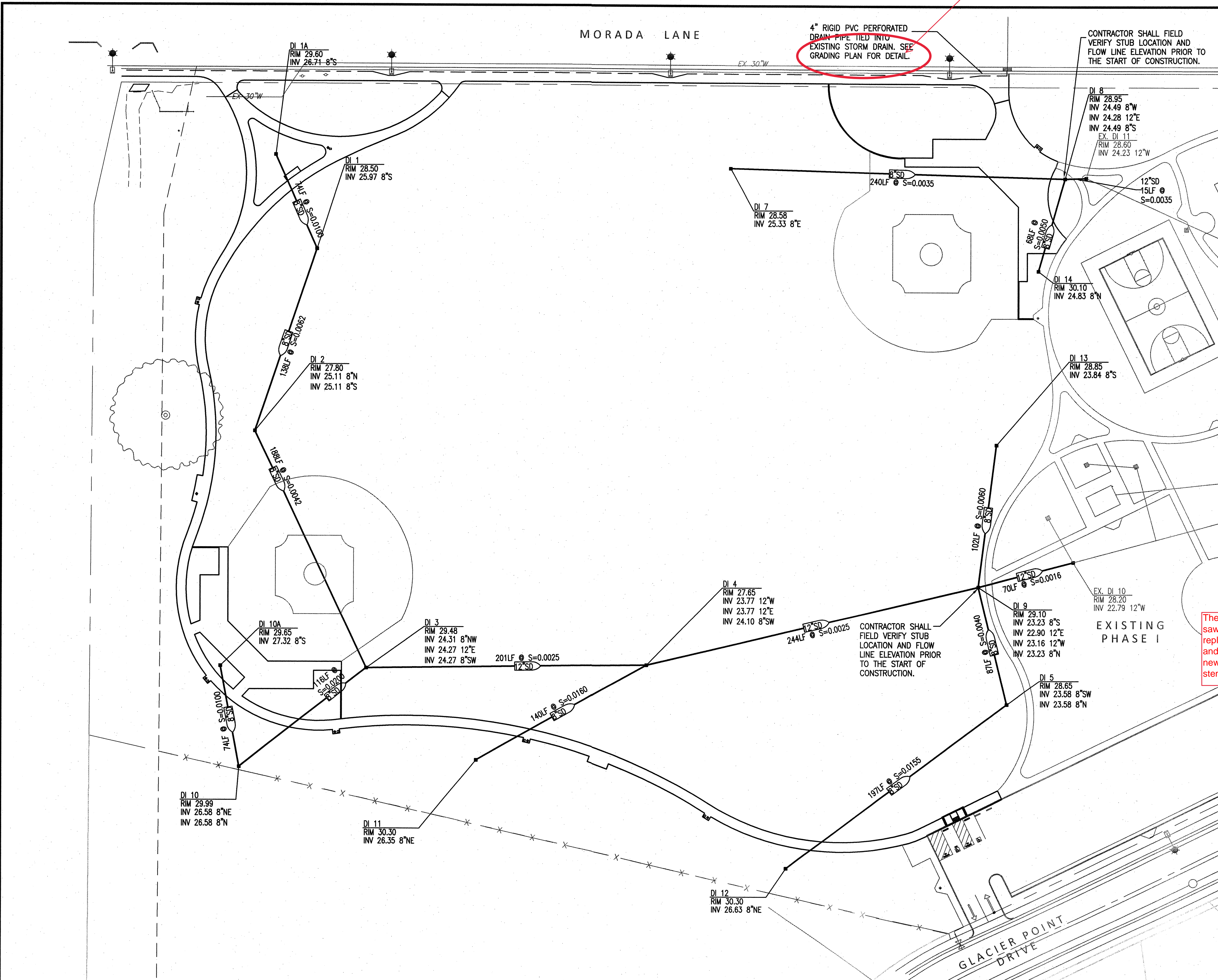
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- CIVIL ENGINEERING
- STRUCTURAL ENGINEERING
- LANDSCAPE ARCHITECTURE
- SURVEYING

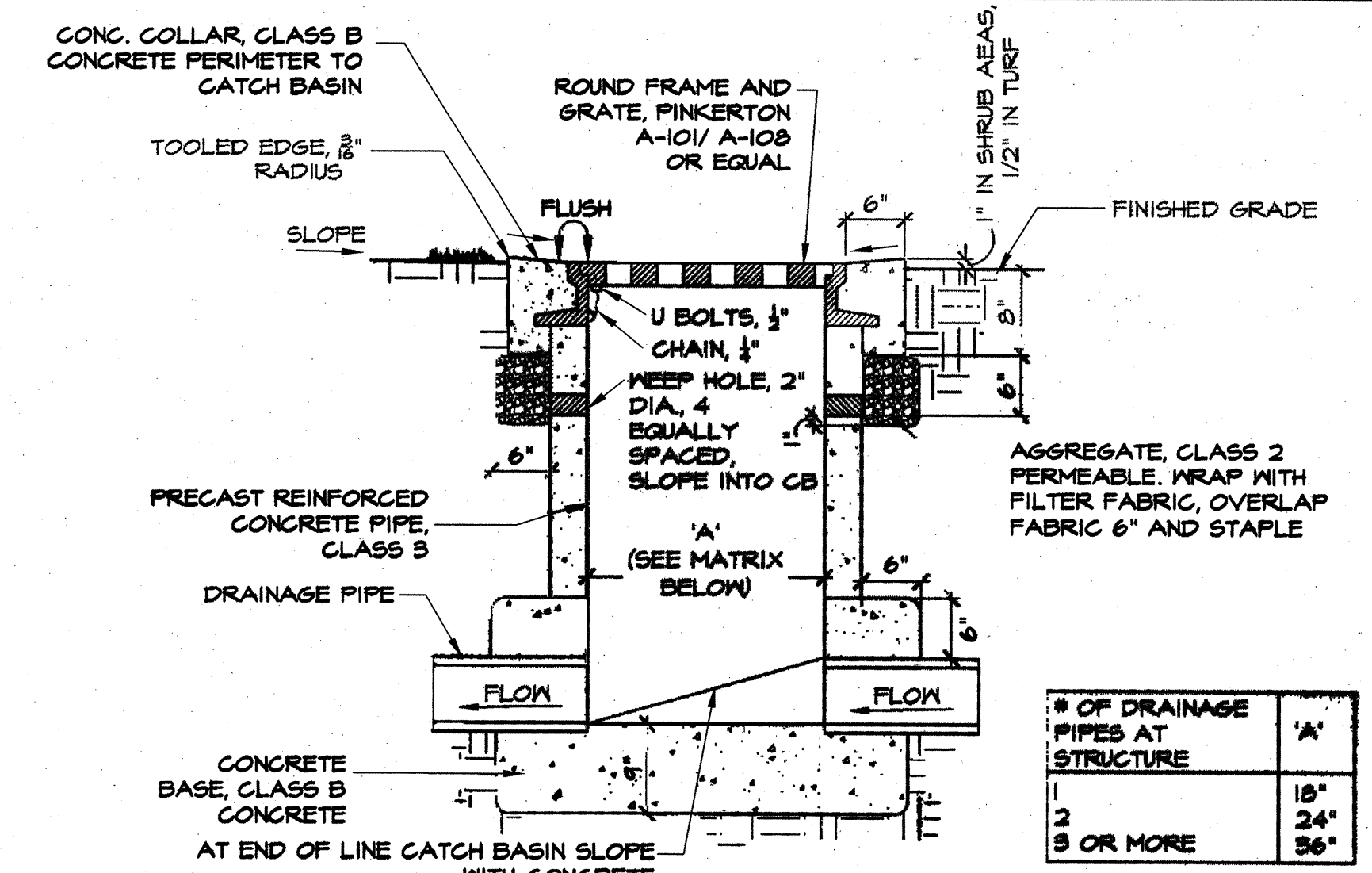
Revision No.	Description	Date	By	Apprvd. By



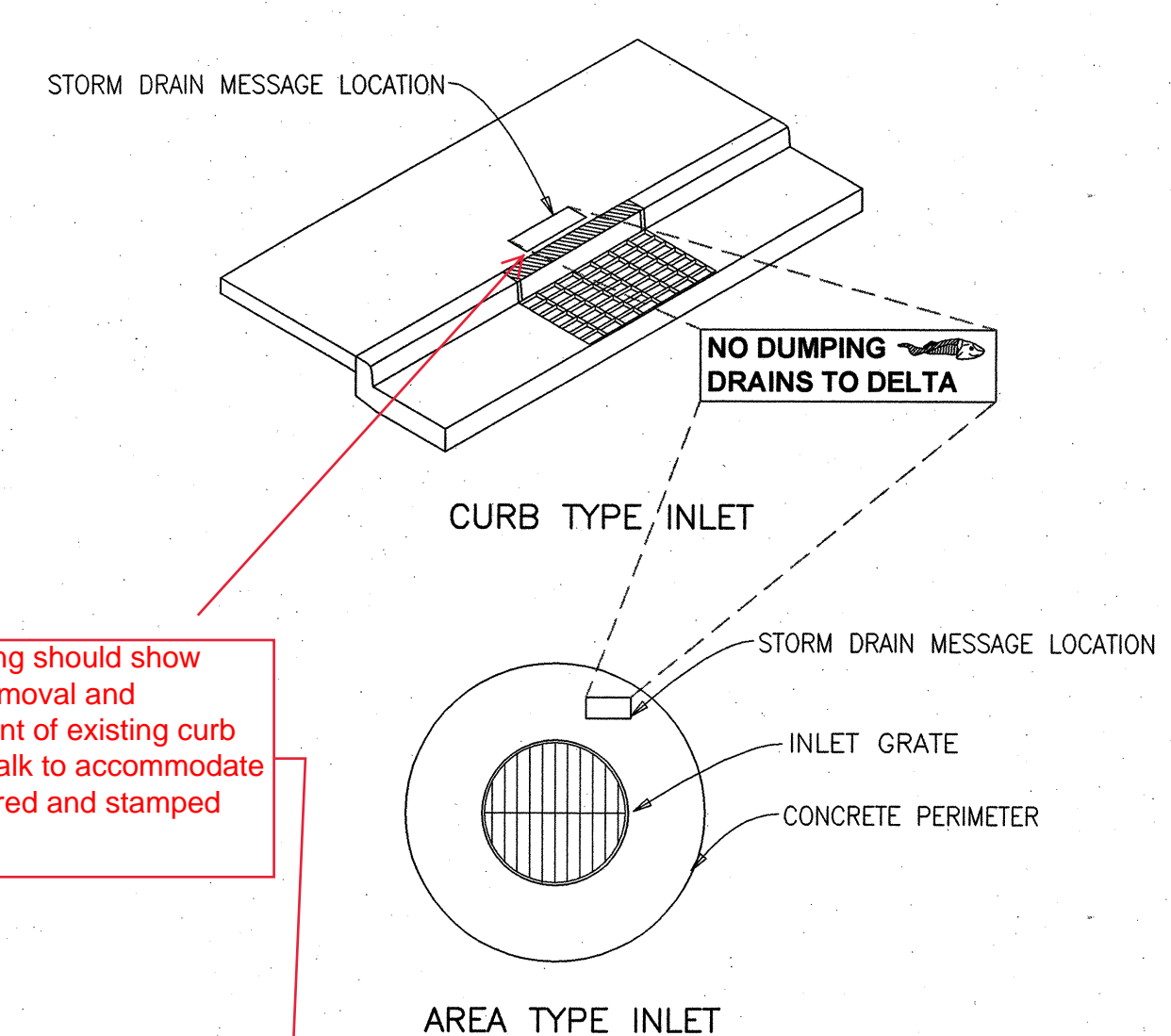
BENCHMARK:
 PER ONSITE CONTROL PLAN ON SHEET C1.0



No detail is provided.



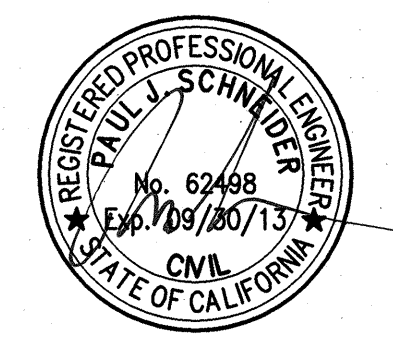
1 ROUND CATCH BASIN
NTS



The drawing should show sawcut, removal and replacement of existing curb and sidewalk to accommodate newly poured and stamped stencil.

- NOTES:
- DESIGN OF STORM DRAIN MESSAGE SHALL BE IN ACCORDANCE WITH DETAILS SHOWN ABOVE.
 - FOR NEW DEVELOPMENT, MESSAGE AND SYMBOL SHALL BE PERMANENTLY PLACED WITH THE USE OF BOMANITE, STAMPED INTO THE CONCRETE, OR OTHER METHODS APPROVED BY THE CITY ENGINEER.
 - PAINTING SHALL NOT BE ALLOWED. LETTERS SHALL BE 1-1/2 INCHES IN HEIGHT.

2 STORM DRAIN MESSAGE LOCATION
NTS



DATE SIGNED: 05/07/12

MATT EQUINOA PARK PHASE II
UTILITY PLAN

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Revision No.	Description	Date	By	Appvd. By

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

SCALE AS SHOWN
DESIGNED BY R/N
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CHECKED BY PJS
RECORD DWGS.

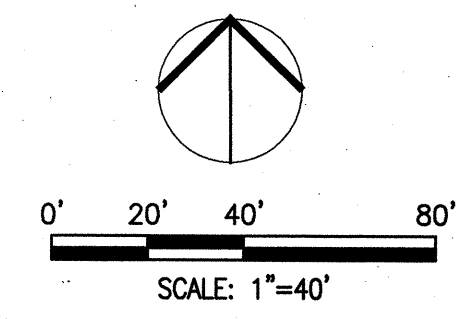
APPROVED BY: 7/12/12
DATE

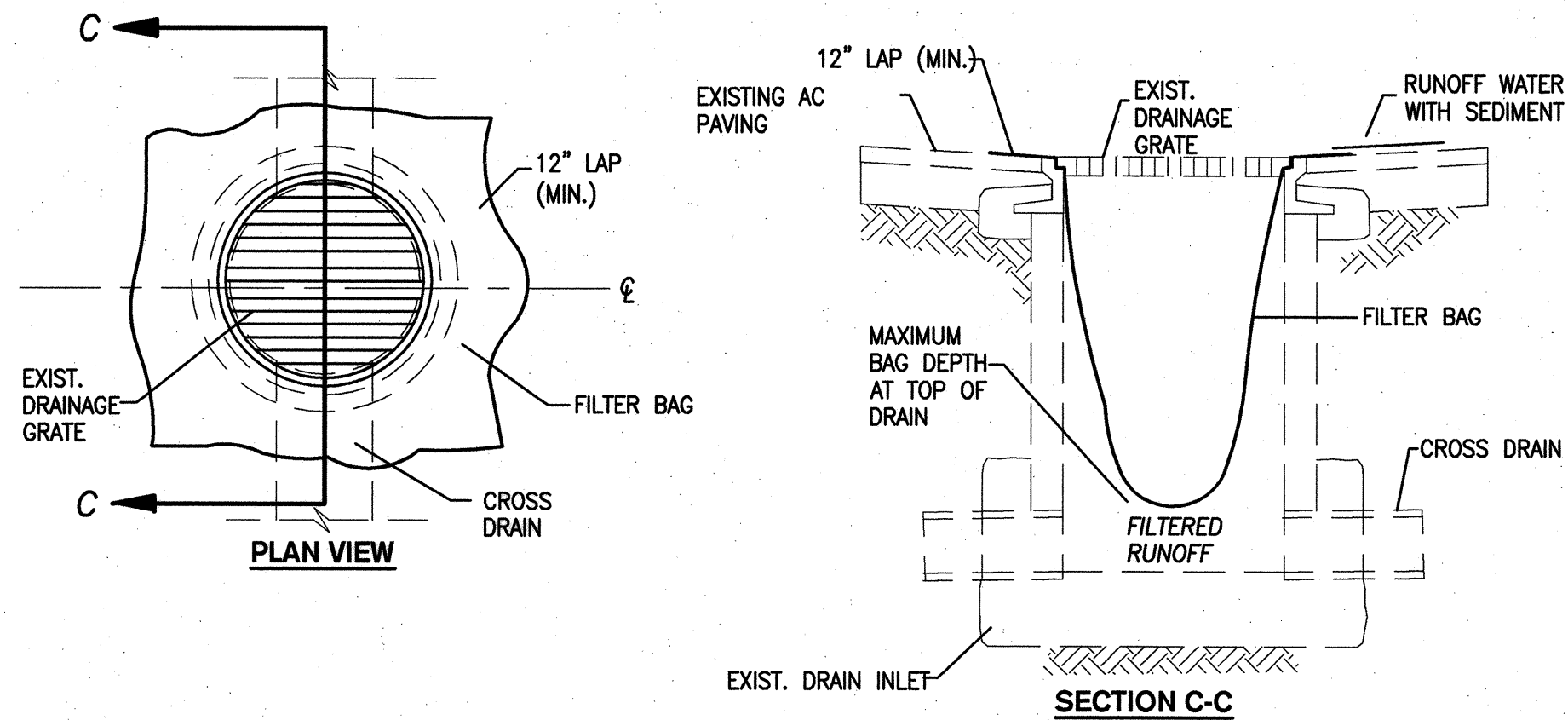
CITY LANDSCAPE ARCHITECT
STOCKTON, CALIFORNIA

SHEET NO. C60
8 OF 28 SHEETS
PROJECT NO.



BENCHMARK:
PER ONSITE CONTROL PLAN ON SHEET C1.0

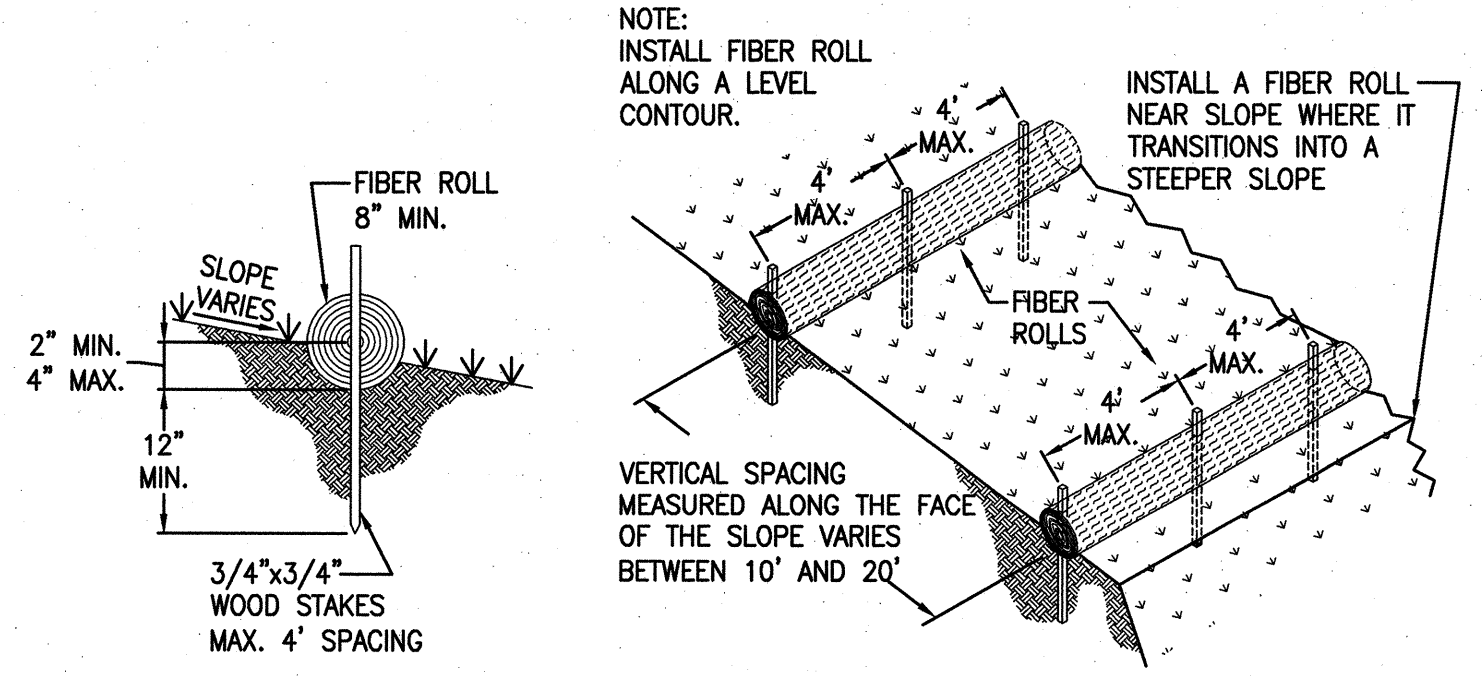




TEMPORARY GRAVEL BAG FILTER AT DROP INLET

1 DROP INLET SEDIMENT PROTECTION
NTS

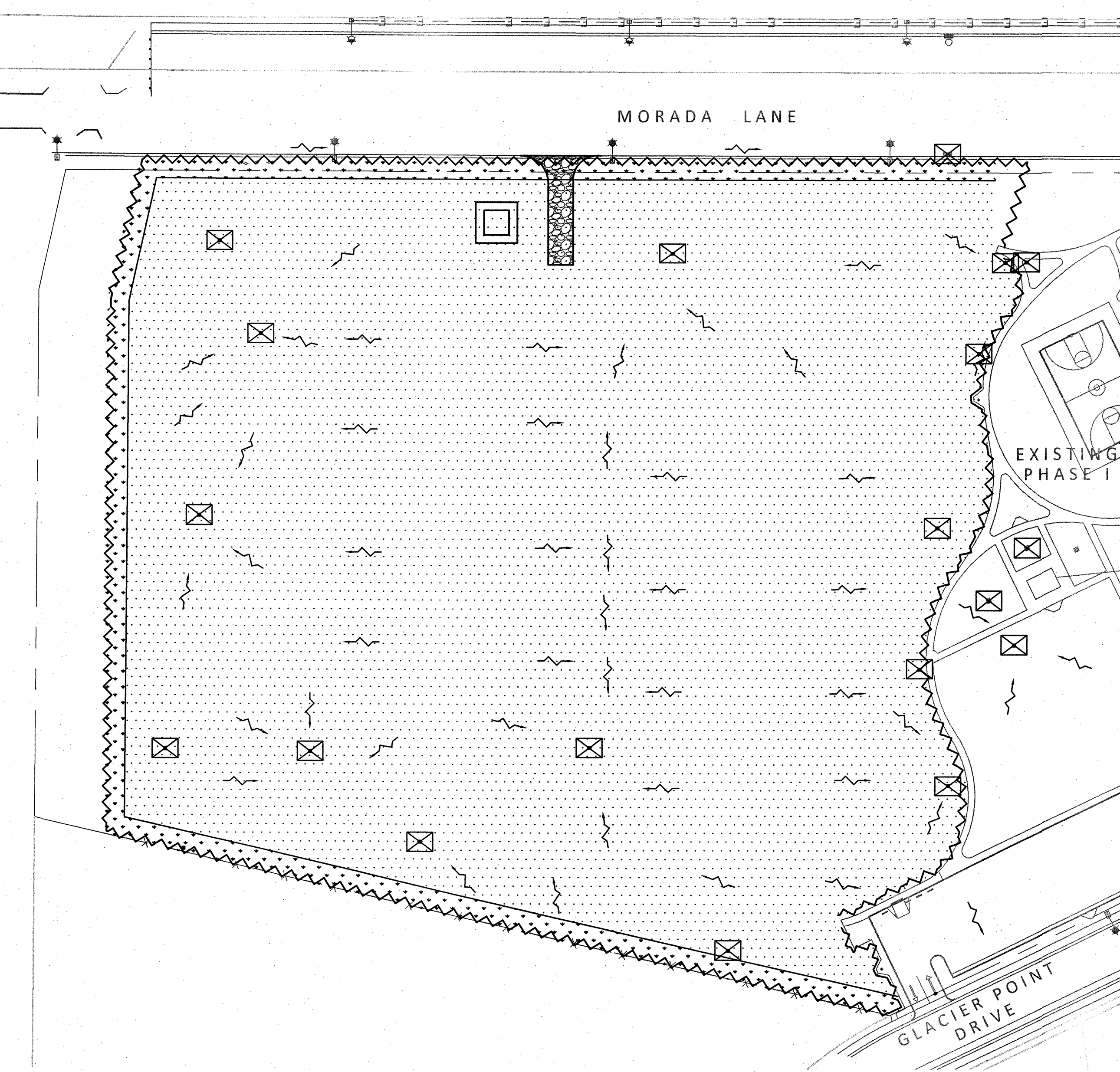
Add Note:
Contractor to
remove on day of
final project
acceptance by City
Project Manager.



ENTRENCHMENT DETAIL

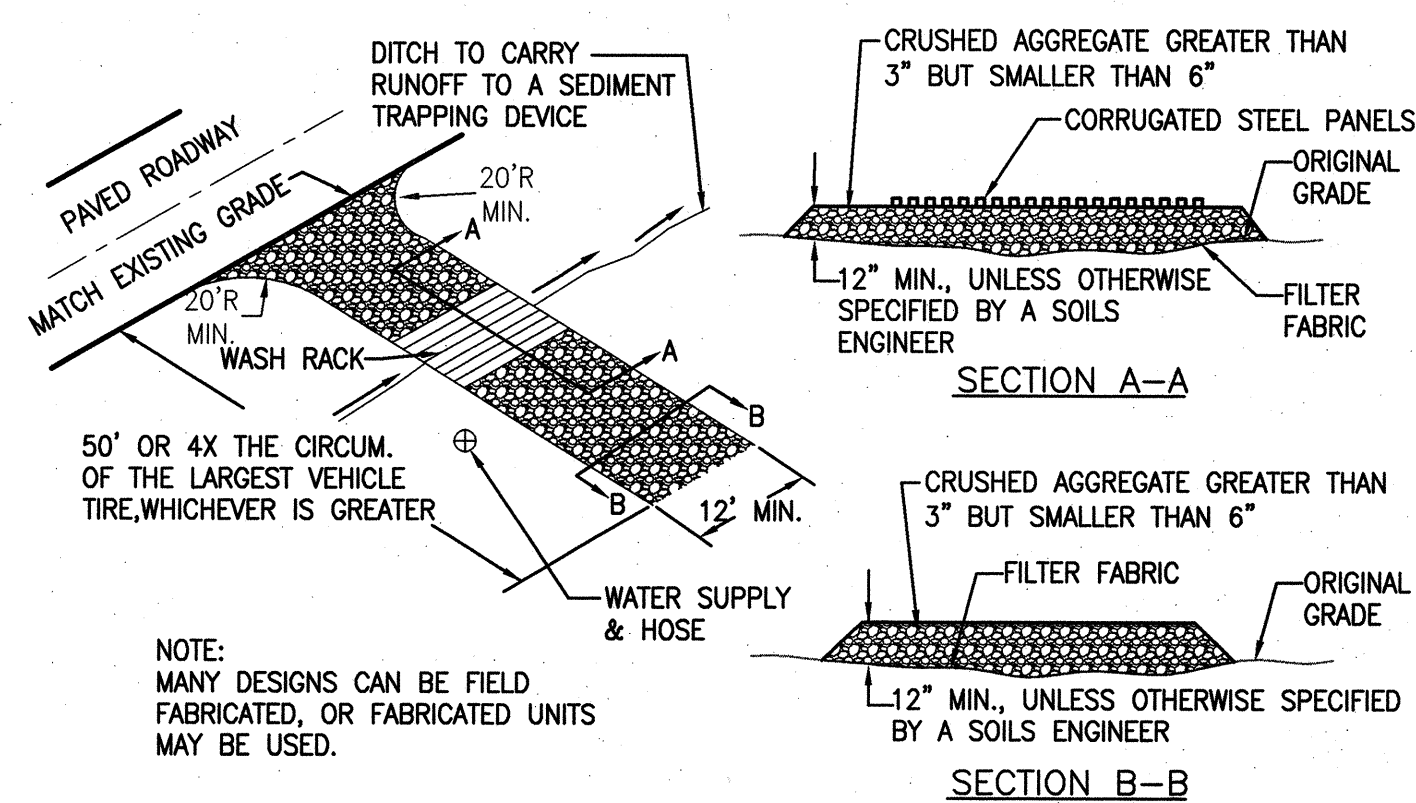
TYPICAL FIBER ROLL INSTALLATION

2 FIBER ROLLS
NTS

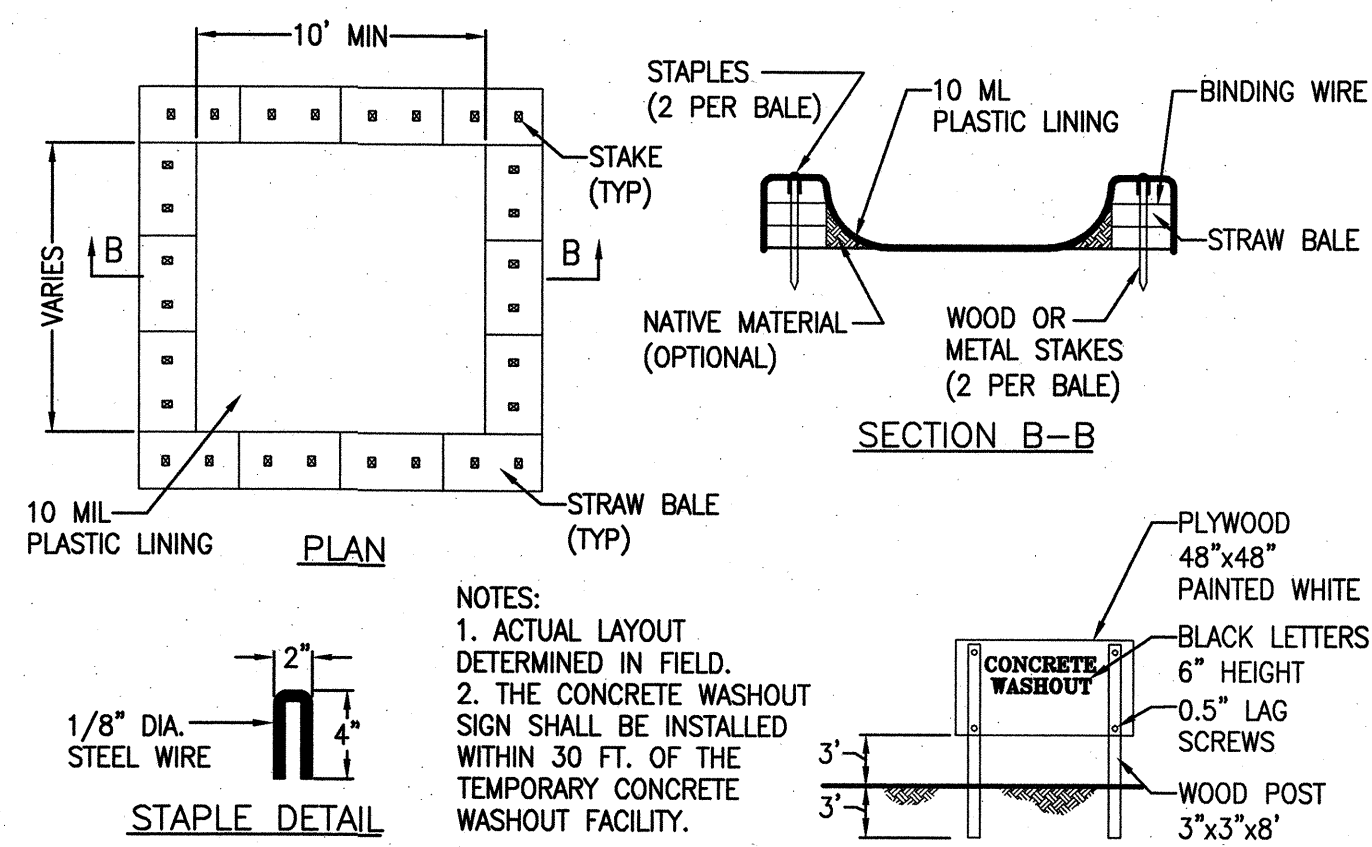


EROSION CONTROL LEGEND

SYMBOL	DESCRIPTION
	FIBER ROLLED WATTLE SE-5
	CONCRETE WASHOUT WM-8
	STABILIZED CONSTRUCTION ENTRANCE TC-(1)(3)
	CATCH BASIN PROTECTION
	BLOWN STRAW AND BINDER, SEE NOTES.



3 STABILIZED CONSTRUCTION ENTRANCE
NTS



4 CONCRETE WASH OUT
NTS

EROSION CONTROL GENERAL NOTES

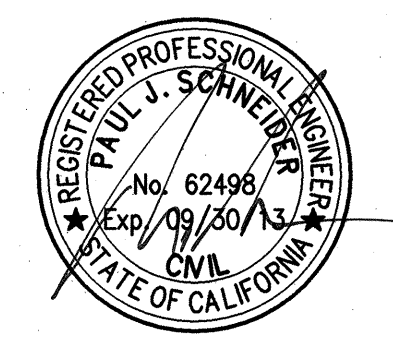
- PLANS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW ALL OFFSETS. THE SITE IS DYNAMIC AND CHANGES ON A DAILY BASIS, CHANGES SHOULD BE MADE ACCORDING TO EXISTING CONDITIONS. BECAUSE IT IS IMPOSSIBLE TO PREDICT ALL POSSIBLE SITUATIONS, CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES TO ENSURE QUALITY CONTROL.
- THE FOLLOWING PLANS ARE ACCURATE FOR EROSION CONTROL PURPOSES ONLY. THE CONTRACTOR SHALL FOLLOW THESE PLANS UNLESS FIELD CONDITIONS DICTATE MODIFICATION. IF MODIFICATION IS NECESSARY, A SWPPP AMENDMENT MUST BE DONE. THIS MAY REQUIRE MODIFICATION TO THESE DRAWINGS AND ENGINEER CONCURRENCE.
- INSPECT AND REPAIR FILTERS AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN 1/2 OF THE FILTER DEPTH HAS BEEN FILLED. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER FILTERING MEASURE. SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM PAVEMENT OF ROAD.
- PERIMETER PROTECTION-ALL UNCOMPLETED SIDEWALK, CURB & GUTTER AREAS AND THE FIRST TEN FEET (MIN.) (FROM BACK OF SIDEWALK) OF ROADSIDE LOT PERIMETERS OF FINISHED PADS ARE TO BE PROTECTED WITH AN APPLICATION OF BLOWN STRAW AND ORGANIC BINDER.

ITEM	LB/ACRE
STRAW	4,000
ORGANIC BINDER	200
- SLOPE PROTECTION-ALL SLOPES OVER 3:1 SHALL BE DESIGNATED TO BE PROTECTED WITH AN APPLICATION OF A TRIPLE STEP PROCESS. INSTALL MATERIALS IN THE FOLLOWING MANNER AND RATE:

ITEM	LB/ACRE
HYDRO MULCH	1,500
PAPER MULCH	75
EROSION MIX SEED	75
SANTA CRUZ MIX AVAILABLE THROUGH HORIZON (916) 492-1000 OR APPROVED EQUAL	400
FERTILIZER (16-20-0)	150
ORGANIC BINDER	150
BLOWN STRAW	3,000
STRAW/WHEAT OR RICE STRAW	150
HYDRO-TACK	500
PAPER MULCH	150
ORGANIC BINDER	150
- ALTERNATE INLET PROTECTION SHALL BE USED ON ROADS OPEN TO THE PUBLIC IF ANY HAZARDOUS MATERIALS OR WASTES WHICH HAVE BEEN TREATED, STORED, DISPOSED, SPILLED, OR LEAKED IN SIGNIFICANT QUANTITIES ONTO THE CONSTRUCTION SITE, THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE THEM FROM THE SITE AND DISPOSE OF PROPERLY.
- CHLORINATED OR DECHLORINATED WATER SHALL NOT BE DISCHARGED INTO THE STORM DRAIN SYSTEM. THE CONTRACTOR MAY DISPOSE THIS WATER INTO THE SANITARY SEWER SYSTEM UPON APPROVAL BY THE GOVERNING AGENCY.
- THE CONTRACTOR SHALL KEEP MAINTENANCE, INSPECTION, AND REPAIR PROCEDURES TO ENSURE THAT ALL GRADED SURFACES, WALLS, BERMS, DRAINAGE STRUCTURES, VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES, AND OTHER CONTROLS ARE MAINTAINED IN GOOD AND EFFECTIVE CONDITION AND ARE PROMPTLY REPAIRED OR RESTORED WHEN NECESSARY. ANY DEWATERING WATER SHALL NOT BE DISCHARGED DIRECTLY INTO THE STORM WATER SYSTEM, AND SHALL NOT BE DISCHARGED INTO THE SEWER SYSTEM.
- ALL DEWATERING WATER MUST BE CHANNLED THROUGH AN APPROVED SEDIMENT BARRIER PRIOR TO THE WATER ENTERING THE STORM SYSTEM.
- PAVEMENT CLEANING- FLUSHING OF STREETS/PARKING LOTS TO REMOVE DIRT AND CONSTRUCTION DEBRIS IS PROHIBITED UNLESS PROPER SEDIMENT CONTROLS ARE USED. PREFERABLY, AREAS REQUIRING CLEANING SHOULD BE SWEEPED.
- THE CONTRACTOR SHALL IMPLEMENT THIS EROSION CONTROL PLAN FROM OCTOBER 15 THROUGH APRIL 15 OF EVERY YEAR OF CONSTRUCTION.
- SOIL STABILIZATION MEASURES SHALL BE TAKEN.

AGENCY STANDARD NOTES

- CONSTRUCTION OPERATIONS- DUST SHALL BE CONTROLLED. WASTEWATER GENERATED DURING CONSTRUCTION SHALL NOT BE DISCHARGED TO THE STORM DRAIN SYSTEM. THIS INCLUDES WASTE FROM PAINTING, SAW CUTTING, CONCRETE WORK ETC. THE CONTRACTOR SHALL MAKE ARRANGEMENTS TO ELIMINATE DISCHARGES TO THE STORM DRAIN SYSTEM AND, IF NECESSARY, PROVIDE AN AREA FOR ON-SITE WASHING ACTIVITIES DURING CONSTRUCTION. MATERIALS WHICH COULD CONTAMINATE STORM RUNOFF SHALL BE STORED IN AREAS WHICH ARE DESIGNED TO PREVENT EXPOSURE TO RAINFALL AND TO NOT ALLOW STORM WATER TO RUN ONTO THE AREA.
- PAVEMENT CLEANING- FLUSHING OF STREETS/PARKING LOTS TO REMOVE DIRT AND CONSTRUCTION DEBRIS IS PROHIBITED UNLESS PROPER SEDIMENT CONTROLS ARE APPROVED BY THE CITY OF STOCKTON BEFOREHAND. PREFERABLY, AREAS REQUIRING CLEANING SHOULD BE SWEEPED.



DATE SIGNED: 05/07/12

MATT EQUINOA PARK PHASE II

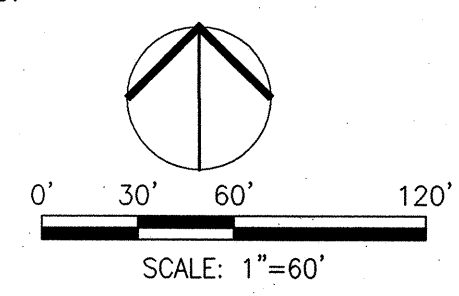
EROSION CONTROL PLAN

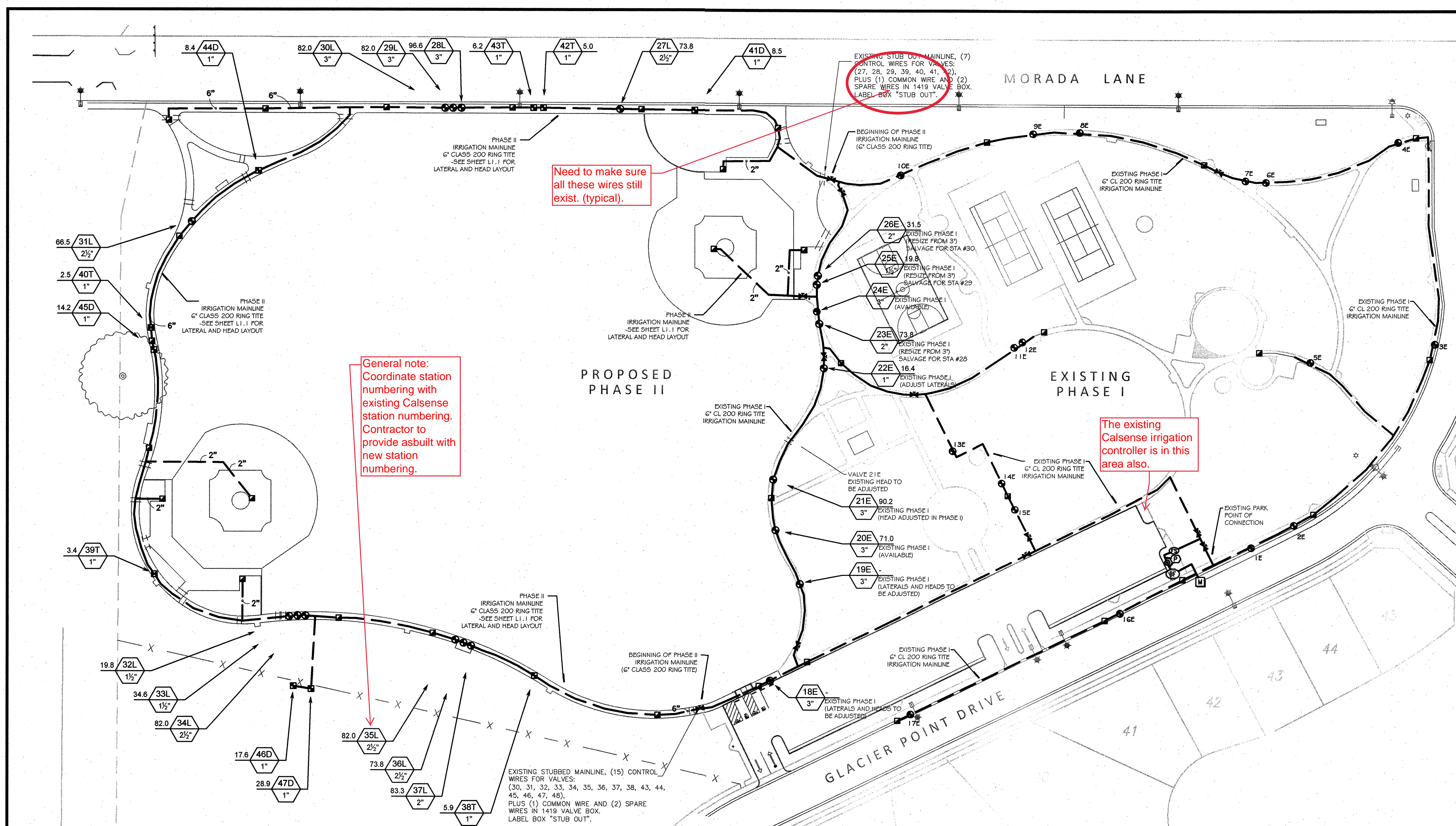
DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

SCALE	APPROVED BY:	DATE	SHEET NO.
DESIGNED BY R/N	7/12/12		C10
DRAWN BY R/N			8 OF 28 SHEETS
CHECKED BY PJS			
RECORD DWGS.			

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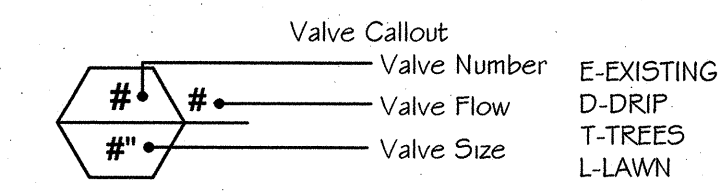
Revision No.	Description	Date	By	Appr. By





IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
■	Netafim LFCZ10075-HF 1" valve, 3/4" filter and a high flow pressure regulating valve (3.5 - 17.6gpm).	8
■	Netafim LVCZ10075-LF 1" valve, 3/4" filter and a low flow pressure regulating valve (0.25 - 4.4gpm).	2
●	Gnswold 2030 Low Amp. Solenoid	37
■	Rain Bird 44-NP 1" Quick Coupler Valve, two piece body, locking cover, with non-potable Purple Locking Cover.	33
⌵	Nibco P-G19-RW 2" to 12" cast iron gate valve, same size as mainline pipe where located. Resilient wedge non-rising stem flow control with IP5 push-on ends.	12
⊕	EXISTING 6" CLA-VAL CHECK VALVE #01-02	1
⊖	EXISTING Febco 025YD 6" Reduced Pressure Backflow Preventer	1
⊕	EXISTING Dual Flow Sensor and Master Valve DF5AV-150P+400P+600	1
P	EXISTING Booster Pump BARRETT BOOSTER PUMP. IRRIBOOST #BEP2.5YHB-50-2	1
M	EXISTING Water Meter 4" POINT OF CONNECTION FOR ENTIRE PARK SYSTEM. EXISTING AS PART OF PHASE I	1
---	Irriation Mainline: PVC 6" Class 200 Ring Tite Unless Noted In Plan	5,289 L.F.



- (E) EXISTING VALVES TO MODIFY
118E, 19E, 22E, 24E
- (D) DRIP VALVES
41D, 44D, 45D, 46D, 47D
- (T) TREE VALVES
38T, 39T, 40T, 42T, 43T
- (L) LAWN VALVES
20E, 21E, 23E, 25E, 26E,
27L, 28L, 29L, 30L, 31L, 32L, 33L, 34L, 35L, 36L, 37L

IRRIGATION GENERAL NOTES

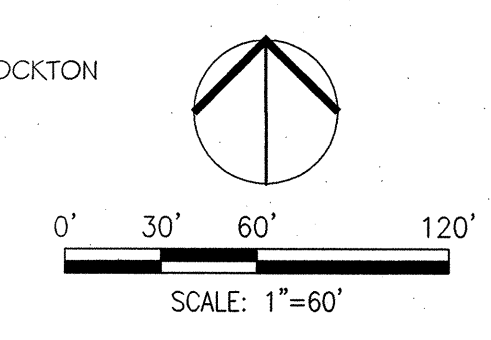
1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH CITY OF STOCKTON STANDARDS.
2. THE SUB-SURFACE DRIP SYSTEM IS DESIGNED TO OPERATE AT 20 PSI WITH THE OPPORTUNITY TO RUN MULTIPLE STATIONS AT ONCE. THE SUBCONTRACTOR IS TO PERFORM A STATIC AND DYNAMIC PRESSURE TEST; VERIFY AT LEAST 45 PSI. STATIC AND THEN RECORD THE PRESSURE READING AT 85 GPM. REPORT THE FINDINGS TO THE LANDSCAPE ARCHITECT. IF THE SUBCONTRACTOR FAILS TO DO SO, THE SUBCONTRACTOR WILL TAKE FULL RESPONSIBILITY FOR ANY NECESSARY REVISIONS.
3. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH. LANDSCAPE SUBCONTRACTOR SHALL GUARANTEE 100% COVERAGE OF SYSTEM.
4. IRRIGATION CONTROLLER TO BE LOCATED AT EXISTING LOCATIONS (PER PLANS).
5. SPLICING OF 24 VOLT WIRES IS NOT PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 36" LONG, 6" DIAMETER COIL OF EXCESS WIRE AT EACH SPLICE AND A 36" LONG EXPANSION LOOP EVERY 100 FEET ALONG WIRE RUN. TAPE WIRE TOGETHER EVERY TEN FEET. TAPING WIRES IS NOT REQUIRED INSIDE SLEEVES. RUN WIRE FROM EACH REMOTE CONTROL VALVE TO THE CONTROLLER. ALL CONTROLLER WIRES TO BE INDEXED AT VALVES AND CONTROLLER.
6. PLASTIC VALVE BOX LIDS TO BE INDEXED AT VALVES AND CONTROLLER. BOX BODY SHALL HAVE KNOCK-OUTS WITH BOLT-DOWN LIDS.
7. INSTALL NEW REMOTE CONTROL VALVE BOXES 12" FROM WALK, CURB, LAWN, HEADER BOARD, BUILDING, OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, LAWN, ETC. AND EACH BOX SHALL BE 12" APART. SHORT SIDE OF RECTANGULAR VALVE BOXES SHALL BE PARALLEL TO WALK, CURB, LAWN, ETC. THIS PLAN IS **DIAGRAMMATIC**. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICTS BETWEEN THE IRRIGATION SYSTEM AND PLANTING AND ARCHITECTURAL FEATURES.
8. THE IRRIGATION CONTRACTOR SHALL FLUSH ALL LINES AND ADJUST ALL HEADS FOR MAXIMUM PERFORMANCE AND TO MINIMIZE OVERSPRAY ON TO WALKS, WALLS, FENCES, DRIVES, AND BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT EXISTING CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM AND SO THAT EACH VALVE CLOSURES AUTOMATICALLY WITHIN 20 SECONDS OF BEING DEACTIVATED AT THE CONTROLLER.
9. ALL CONTROL WIRE TO BE U.L. LISTED DIRECT BURY #14 GAUGE WIRE TO ALL VALVES FROM CONTROLLER.
10. CONTRACTOR SHALL LABEL VALVE BOX LIDS PER STANDARDS. REMOTE CONTROL VALVES SHALL BE LABELED WITH STATION NUMBER, QUICK COUPLERS WITH "QC" AND GATE VALVES WITH "GV".
11. CONTRACTOR SHALL PROVIDE TWO (2) COPIES OF 11x17 LABELED CONTROLLER CHARTS PRIOR TO FINAL ACCEPTANCE BY OWNER. CONTROLLER CHARTS SHALL BE COLOR-CODED INDICATING EACH VALVE AND THE SYSTEM IT OPERATES. CHARTS SHALL BE REDUCTIONS OF THE IRRIGATION PLANS.
12. SEE SPECIFICATIONS FOR COMMON TRENCHING REQUIREMENTS.
13. ALL PVC SLEEVES UNDER PAVEMENT AND ROADWAYS TO BE SCH. 40. SLEEVES TO BE TWICE THE DIAMETER OF PIPE OR WIRE BUNDLE THAT WILL PASS THROUGH SLEEVE.
14. INSTALL CHECK VALVES OR IN-HEAD CHECK VALVES TO ELIMINATE LOW HEAD DRAINAGE WHERE NECESSARY.
15. SUBSTITUTION FOR IRRIGATION EQUIPMENT SPECIFIED ON THE PLANS MAY BE DONE ONLY WITH THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
16. PROVIDE A MINIMUM 24" COVER OVER ALL MAIN LINE PIPING AND 18" OVER ALL LATERAL LINES.
17. THE IRRIGATION SUBCONTRACTOR SHALL NOT WILLFULLY INSTALL THE SYSTEM AS DESIGNED WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT WERE NOT IDENTIFIED IN THE DRAWINGS. SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. OTHERWISE, THE SUBCONTRACTOR MUST ASSUME FULL RESPONSIBILITY FOR ANY NECESSARY REVISIONS.
18. ALL WIRE CONNECTIONS TO BE MADE IN VALVE BOX WITH WATER TIGHT CONNECTORS PER THE MANUFACTURERS DIRECTIONS. WIRE SPLICES SHALL NOT BE PERMITTED UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE. WIRE SPLICE LOCATIONS MUST BE INDICATED ON "AS-BUILTS" PER THE SPECIFICATIONS.
19. ALL PIPE 2 1/2" AND SMALLER TO BE SOLVENT WELD AND ALL PIPE 3" AND OVER TO BE RING-TITE WITH JOINT RESTRAINTS.
20. CONTRACTOR TO VERIFY LOCATIONS OF ALL ON-SITE UTILITIES. RESTORATION OF DAMAGED UTILITIES SHALL BE MADE AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE CITY.
21. CONTRACTOR TO MARK IRRIGATION STREET CROSSINGS OF WATER LINES WITH A CHISELED "I" IN THE CURB.
22. SEE IRRIGATION DETAILS FOR ADDITIONAL INFORMATION.
23. ALL IRRIGATION WORK SHALL BE IN ACCORDANCE WITH THE CITY OF STOCKTON STANDARDS.

WATER EFFICIENCY NOTE

THE IRRIGATION SYSTEMS MEET THE CITY AND STATE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (AD 1081) WATER PRESERVATION REQUIREMENTS BASED ON THE USE OF DRIP AND WATER EFFICIENT IRRIGATION, AND LOW AND MODERATE WATER-USE PLANT SPECIES INSTALLED.



BENCHMARK PER ONSITE CONTROL PLAN ON SHEET C1.0



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Revision No.	Description	Date	By	Appr. By

DATE SIGNED: 05/07/12

MATT EQUINOA PARK PHASE II

IRRIGATION OVERALL PLAN

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

APPROVED BY: *[Signature]* DATE: 7/12/12

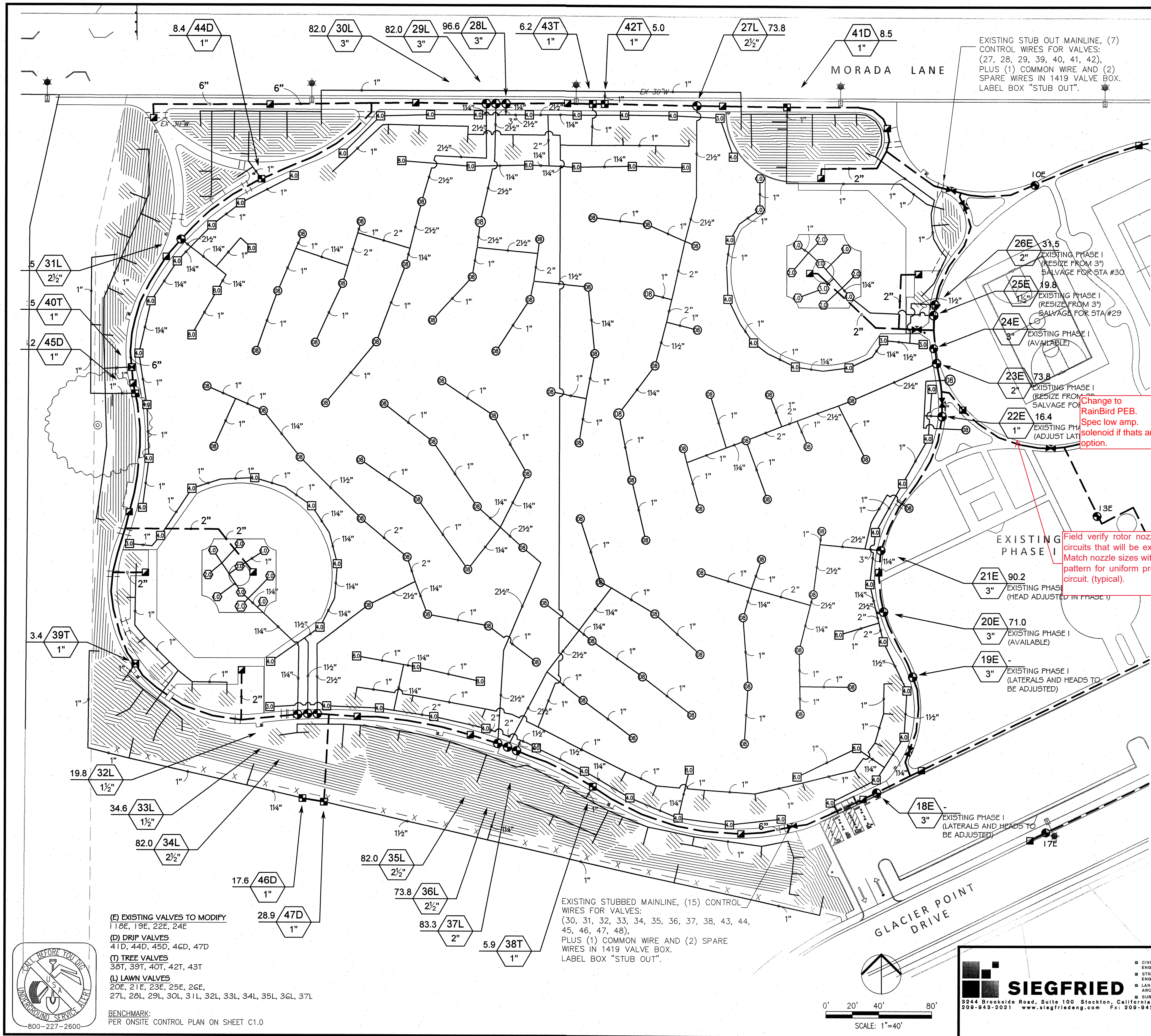
DESIGNED BY: R.N.
DRAWN BY: R.N.
CHECKED BY: P.J.S.
RECORD DWG.

SCALE: 1"=60'

SHEET NO. L10
10 OF 28 SHEETS

CITY LANDSCAPE ARCHITECT
STOCKTON, CALIFORNIA

PROJECT NO.



IRRIGATION SCHEDULE

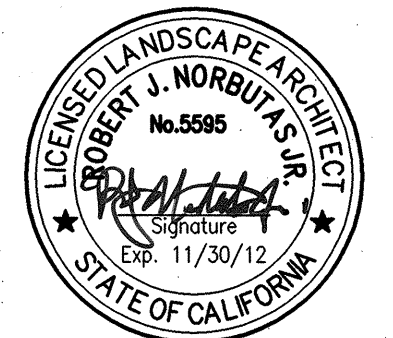
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS
⊙	Rain Bird 3504-PC-SAM Turf Rotor, 4" pop-up, adjustable and full circle, with check valve	10	55	1.18	22'
⊙	Rain Bird 3504-PC-SAM Turf Rotor, 4" pop-up, adjustable and full circle, with check valve	8	55	2.15	28'
⊙	Rain Bird 3504-PC-SAM Turf Rotor, 4" pop-up, adjustable and full circle, with check valve	4	55	3.25	32'
⊙	Rain Bird 5004-PL-PC, FC-R-55 Turf Rotor, 4" pop-up, adjustable and full circle, with PRS in-stem pressure regulator and stainless nser.	5	55	3.47	40'
⊙	Rain Bird 5004-PL-PC, FC-R-55 Turf Rotor, 4" pop-up, adjustable and full circle, with PRS in-stem pressure regulator and stainless nser.	50	55	4.44	42'
⊙	Rain Bird 5004-PL-PC, FC-R-55 Turf Rotor, 4" pop-up, adjustable and full circle, with PRS in-stem pressure regulator and stainless nser.	16	55	8.86	50'
⊙	Rain Bird F4-PC, FC-55 Turf Rotor, 4" pop-up, adjustable and full circle, with stainless steel nser	81	60	8.20	51'
⊠	Netafim LFC210075-HF 1" valve, 3/4" filter and a high flow pressure regulating valve (3.5 - 17.6gpm).	8			
⊠	Netafim LVC210075-LF 1" valve, 3/4" filter and a low flow pressure regulating valve (0.25 - 4.4gpm).	2			
▨	Area to Receive Dripine Netafim TLCV4-1B-24 1.7 mm Landscape Dripperline with 0.4gph emitters at 18" o.c. with check valve, pressure compensation, 14.7psi min. to 50psi max. Dripperline laterals spaced at 24" apart, with emitters offset for triangular pattern.	42,578 s.f.			
⊙	Gnsword 2030 Low Amp. Solenoid	37			
⊠	Rain Bird 44-NP 1" Quick Coupler Valve, two piece body, locking cover, with non-potable Purple Locking Cover.	33			
⊠	Nibco P-619-RW 2" to 12" cast iron gate valve, same size as mainline pipe where located. Resilient wedge non-rising stem flow control with IFS push-on ends.	12			
⊠	EXISTING 6" CLA-VAL CHECK VALVE #81-02	1			
⊠	EXISTING Febco 825YD 6" Reduced Pressure Backflow Preventer	1			
⊠	EXISTING Dual Flow Sensor and Master Valve DFSAV-150P+400P+600	1			
⊠	EXISTING Booster Pump BARRETT BOOSTER PUMP. IRRIBOOST #BEP2.5YHB-50-2	1			
⊠	EXISTING Water Meter 4" POINT OF CONNECTION FOR ENTIRE PARK SYSTEM. EXISTING AS PART OF PHASE I	1			
---	Irrigation Lateral Line: PVC Class 200 SDR 21 PVC Class 200 irrigation pipe. Only lateral transition pipe sizes 1 1/4" and above are indicated on the plan, with all others being 1" in size.	12,583 l.f.			
---	Irrigation Mainline: PVC 6" Class 200 Ring Tite	5,289 l.f.			
---	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	182.1 l.f.			
⊠	Valve Callout: Valve Number, Valve Flow, Valve Size				

Change to RainBird PEB. Spec low amp. solenoid if thats an option.

Field verify rotor nozzle sizes for existing circuits that will be extended into phase II. Match nozzle sizes with corresponding rotor pattern for uniform precipitation rate within circuit. (typical).

- (E) EXISTING VALVES TO MODIFY: 118E, 19E, 22E, 24E
- (D) DRIP VALVES: 41D, 44D, 45D, 46D, 47D
- (T) TREE VALVES: 38T, 39T, 40T, 42T, 43T
- (L) LAWN VALVES: 20E, 21E, 23E, 25E, 26E, 27L, 28L, 29L, 30L, 31L, 32L, 33L, 34L, 35L, 36L, 37L

EXISTING STUBBED MAINLINE, (15) CONTROL WIRES FOR VALVES: (30, 31, 32, 33, 34, 35, 36, 37, 38, 43, 44, 45, 46, 47, 48), PLUS (1) COMMON WIRE AND (2) SPARE WIRES IN 1419 VALVE BOX. LABEL BOX "STUB OUT".



DATE SIGNED: 05/07/12

MATT EQUINOA PARK PHASE II IRRIGATION PLAN

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

DESIGNED BY: R/N
DRAWN BY: R/N
CHECKED BY: PJS
RECORD DWGS.

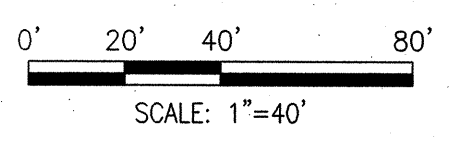
APPROVED BY: [Signature] DATE: 7/12/12

SHEET NO. L11
11 OF 28 SHEETS
PROJECT NO.

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Revision No.	Description	Date	By	Appvd. By



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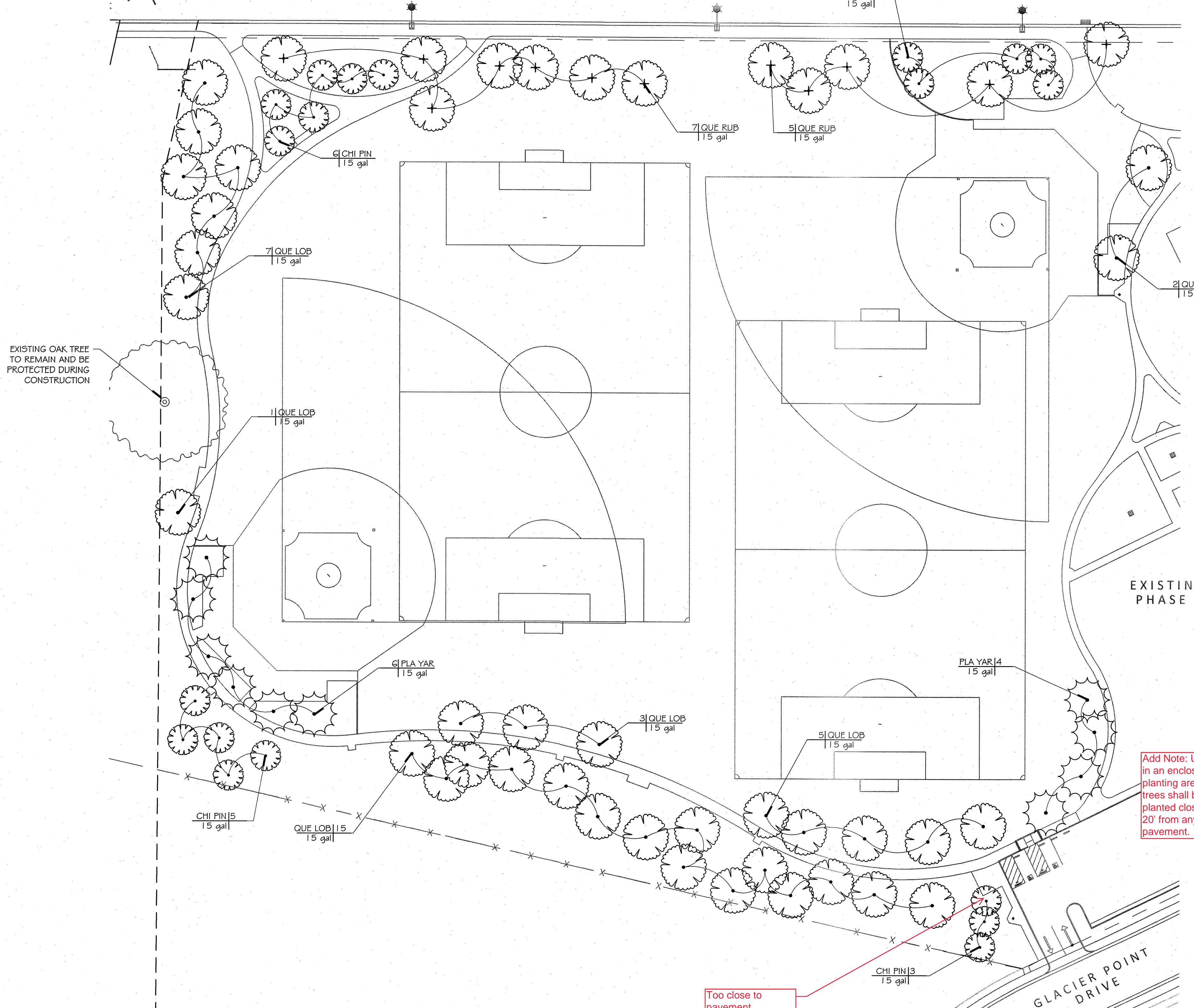
PLANT SCHEDULE

TREES	CODE	BOTANICAL NAME / COMMON NAME	CONT	QTY
	PLA YAR	Platanus x acenfolia 'Yarwood' / London Plane Tree	15 gal	10
	QUE LOB	Quercus lobata / Valley Oak	15 gal	33
	QUE RUB	Quercus rubra / Red Oak	15 gal	12
	CHI PIN	x Chitalpa tashkentensis 'Pink Dawn' / Pink Dawn Chitalpa	15 gal	19

GENERAL PLANTING NOTES

- IF A DISCREPANCY BETWEEN THESE PLANS AND ACTUAL ON-SITE CONDITIONS OCCURS, THE LANDSCAPE SUBCONTRACTOR IS TO NOTIFY THE OWNER IMMEDIATELY FOR A DECISION, BEFORE PROCEEDING WITH HIS WORK.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CITY OF STOCKTON STANDARDS.
- ALL PLANTS BROUGHT ONTO THE SITE SHALL BE WATERED AND PROTECTED FROM EXCESSIVE WIND, SUN, FROST, PHYSICAL DAMAGE AND THEFT UNTIL PLANTED.
- ALL ASPHALT, BASE COURSE AND OTHER DEBRIS ARE TO BE REMOVED COMPLETELY BELOW PLANTING AREAS TO NATIVE SOIL LEVEL.
- THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR POSITIVE SURFACE DRAINAGE AT 2% MINIMUM IN PLANTING AREAS EXCEPT WHERE SHOWN.
- THE SUBCONTRACTOR SHALL FURNISH AND APPLY THE APPROPRIATE PRE-EMERGENT HERBICIDE AT RATES PRESCRIBED BY LAW AND THE MANUFACTURER'S RECOMMENDATIONS. 'SURFLAN 75W' IS RECOMMENDED FOR GROUND COVER AND SHRUB AREAS. ALL PRE-EMERGENT HERBICIDES SHALL BE APPLIED BY LICENSED OPERATORS UNDER FAVORABLE WEATHER CONDITIONS.
- ALL PLANTING AREAS SHALL BE ROTOTILLED (OR HAND CULTIVATED UNDER EXISTING TREES) TO A DEPTH OF 8". TAKE CARE NOT TO DAMAGE ROOTS.
- THE LANDSCAPE CONTRACTOR TO BE RESPONSIBLE FOR OBTAINING A SOILS TEST FROM A SOIL TESTING LABORATORY, AND PROVIDE THE APPROPRIATE AMENDMENTS BASED ON THE TEST RESULTS. FOR PURPOSES OF BIDDING, THE FOLLOWING AMENDMENTS WILL BE USED:
-4 YDS. NITROLIZED OR REDWOOD OR FIR BARK COMPOST
-200 LBS GRO-POWER PLUS
ROTOTILL AMENDMENTS TO A DEPTH OF 8" IN TWO DIRECTIONS.
- FINISH GRADE OF PLANTED AREAS TO BE ONE (1) INCH BELOW PAVING. WATER SOIL THOROUGHLY BEFORE PLANTING. ALL PLANTS SHALL BE SET AT SUCH A LEVEL THAT AFTER SETTLING THEY BEAR THE SAME RELATIONSHIP TO THE SURROUNDING FINISH GRADE AS THEY BORE TO THE SOIL LINE GRADE IN THE CONTAINER, UNLESS OTHERWISE NOTED.
- ALL SHRUBS AND TREES TO HAVE GRO-POWER, 7 GRAM FERTILIZER TABLETS (12-8-8) OR EQUAL SET AT MIDPOINT OF BACKFILL. QUANTITY ACCORDING TO THE MANUFACTURER'S DIRECTIONS.

1 GALLON	3 TABLETS
5 GALLON	8 TABLETS
15 GALLON	14 TABLETS
24" BOX	16 TABLETS
- COVER ALL BARE SOIL AREAS WITH A 3" DEPTH OF APPROVED BARK MULCH AFTER FINAL SHAPING OF SAUCERS AND DRESS OFF NEATLY. PLANTING AREAS OF GROUND COVER MAY BE COVERED WITH 2" DEPTH OF BARK MULCH.
- TREES ARE TO BE STAKED PER DETAIL.
- ROOT CONTROL BARRIER SHALL BE PROVIDED IF TREES ARE PLANTED CLOSER THAN FIVE FEET FROM PAVEMENT. A 20-FOOT WIDE PANEL SHALL BE CENTERED ON THE TRUNK OF EACH TREE PLANTED. ROOT CONTROL PANELS SHALL BE 24-INCHES DEEP MINIMUM AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
- TRIANGULAR SPACING FOR GROUND COVER PLANTING BEDS.
- CONTRACTOR SHALL MAINTAIN THE PROJECT FOR A PERIOD OF 120 CALENDAR DAYS. THE BEGINNING OF THE MAINTENANCE PERIOD SHALL BE AS DEFINED IN THE PROJECT SPECIFICATIONS.
- NO TREES SHALL BE PLANTED WITHIN TEN FEET (10') OF UNDERGROUND WATER MAINS.
- ALL PLANTING WORK SHALL BE IN ACCORDANCE WITH THE CITY OF STOCKTON STANDARDS.
- STAKE ALL TREE LOCATIONS AND OBTAIN CITY LANDSCAPE ARCHITECT APPROVAL PRIOR TO PLANTING.



Add Note: Unless in an enclosed planting area, no trees shall be planted closer than 20' from any pavement.

Too close to pavement.



DATE SIGNED: 05/07/12

MATT EQUINOA PARK PHASE II

TREE PLAN

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

SCALE	AS SHOWN	APPROVED BY:	7/13/12	SHEET NO.	L20
DESIGNED BY	R.N.	DATE		12 OF 28 SHEETS	
DRAWN BY	R.N.				
CHECKED BY	PJS				
RECORD DWGS.					

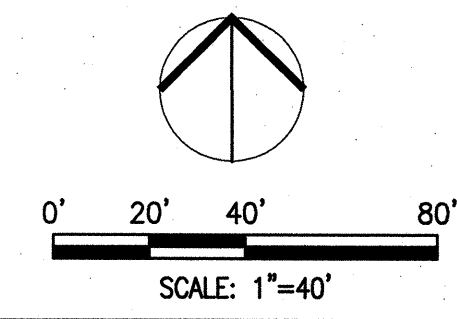
CITY LANDSCAPE ARCHITECT
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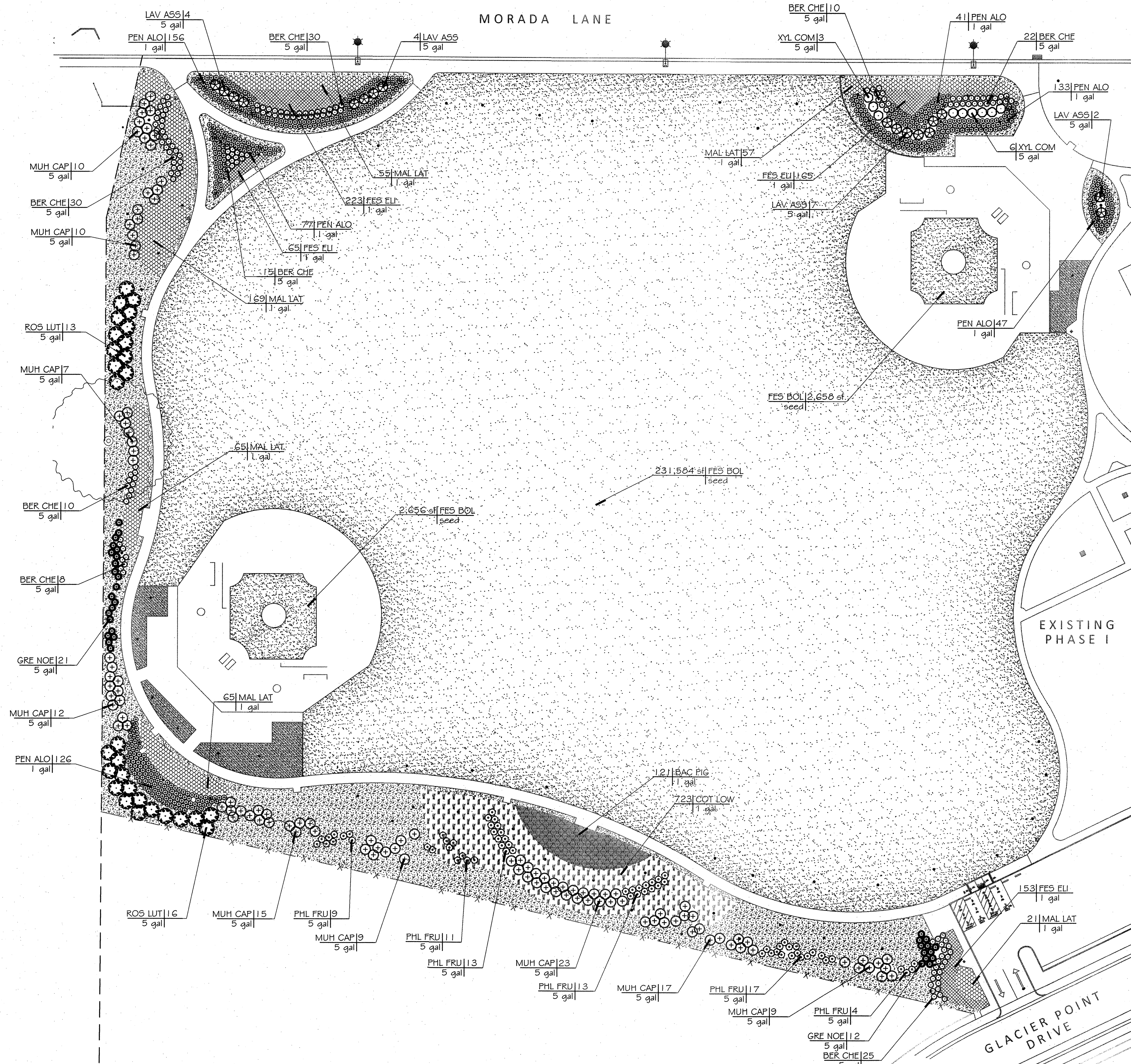
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- LANDSCAPE ARCHITECTURE
- SURVEYING

Revision No.	Description	Date	By	Apprvd. By



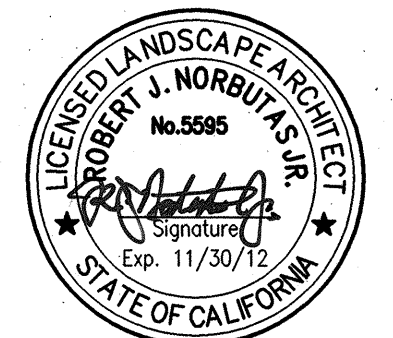
BENCHMARK:
PER ONSITE CONTROL PLAN ON SHEET C1.0

P:\11000\11189-Matt Equinoa Park\11189-L2-Tree Planting



PLANT SCHEDULE

SHRUBS	CODE	BOTANICAL NAME / COMMON NAME	CONT	QTY
	BER CHE	Berberis thunbergii 'Monomb' / Cherry Bomb Japanese Barberry	5 gal	150
	GRE NOE	Grevillea x 'Noelli' / Grevillea	5 gal	33
	LAV ASS	Lavatera assurgentiflora / Mallow	5 gal	17
	MUH CAP	Muhlenbergia capillans / Pink Muhly	5 gal	112
	PEN ALO	Pennisetum alopecuroides 'Hameln' / Hameln Dwarf Fountain Grass	1 gal	582
	PHL FRU	Phlomis fruticosa / Jerusalem Sage	5 gal	66
	ROS LUT	Rosa banksiae 'Lutea' / Banksia Rose	5 gal	29
	XYL COM	Xylosma congestum 'Compacta' / Compact Xylosma	5 gal	9
GROUND COVERS	CODE	BOTANICAL NAME / COMMON NAME	CONT	QTY
	BAC FIG	Baccharis pilularis 'Pigeon Point' / Coyote Brush	1 gal @ 48" oc	1,675 sf
	COT LOW	Cotoneaster dammen 'Lowfast' / Lowfast Bearberry Cotoneaster	1 gal @ 36" oc	5,630 sf
	FES ELI	Festuca cinerea 'Elijah's Blue' / Elijah's Blue Fescue	1 gal @ 24" oc	2,089 sf
	MAL LAT	Malvastrum latantum / Trailing Mallow	1 gal @ 48" oc	5,947 sf
SOD/SEED	CODE	BOTANICAL NAME / COMMON NAME	CONT	QTY
	FES BOL	Festuca x 'Bolero Plus' / Bolero Fescue	seed	236,897 sf
	BARK	AREA WITH NO PLANT MATERIAL TO BE INSTALLED WITH 3" LAYER OF APPROVED BARK MULCH		
	DECOMPOSED GRANITE FINES	AREA WITH NO PLANT MATERIAL TO BE INSTALLED WITH 4" LAYER OF APPROVED DECOMPOSED GRANITE FINES AND STABILIZER.		



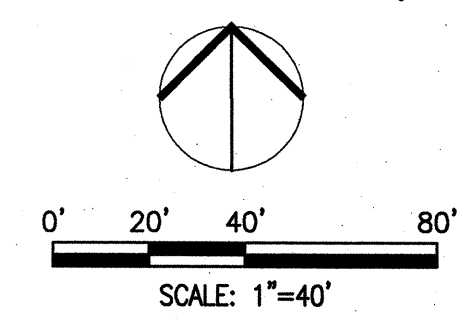
DATE SIGNED: 05/07/12

MATT EQUINOA PARK PHASE II
SHRUB AND GROUND COVER PLAN

DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA	
SCALE: AS SHOWN	APPROVED BY: 7/12/12
DESIGNED BY: R.J.N.	DATE: 7/12/12
DRAWN BY: R.J.N.	SHEET NO. 130
CHECKED BY: P.J.S.	13 OF 28 SHEETS
RECORD DWGS.	CITY LANDSCAPE ARCHITECT STOCKTON, CALIFORNIA



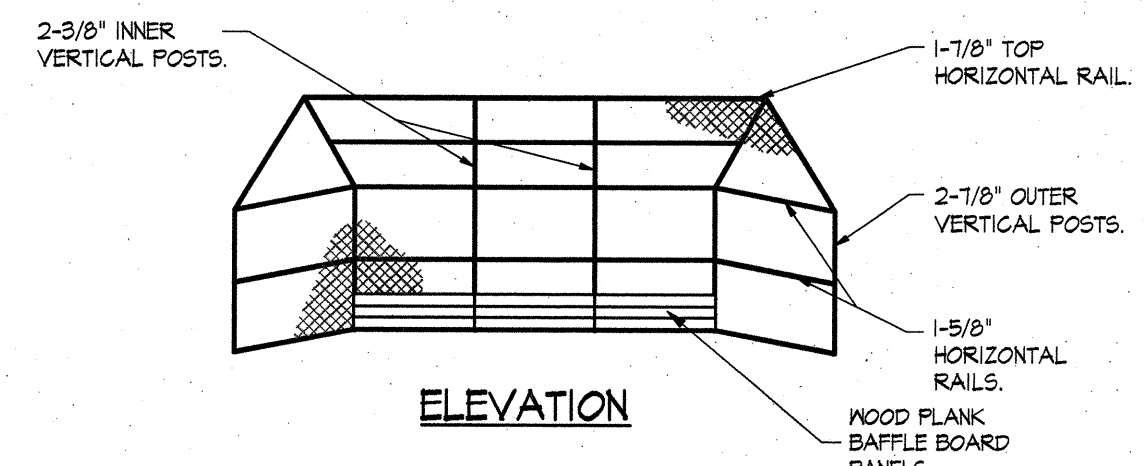
BENCHMARK:
PER ONSITE CONTROL PLAN ON SHEET C1.0



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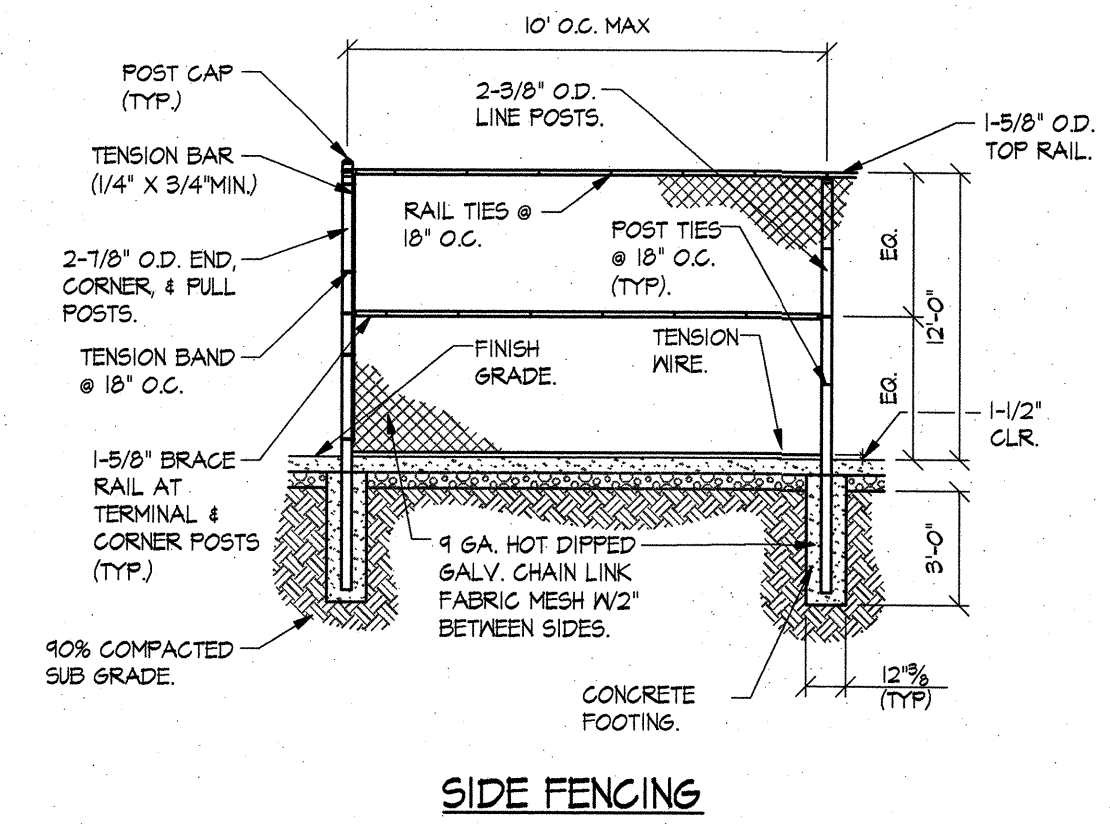
Revision No.	Description	Date	By	Appr. By

P:\1000\1189 Matt Equinoa\1189-Matt Equinoa L.C.-Shrub and G.C. Plan.dwg

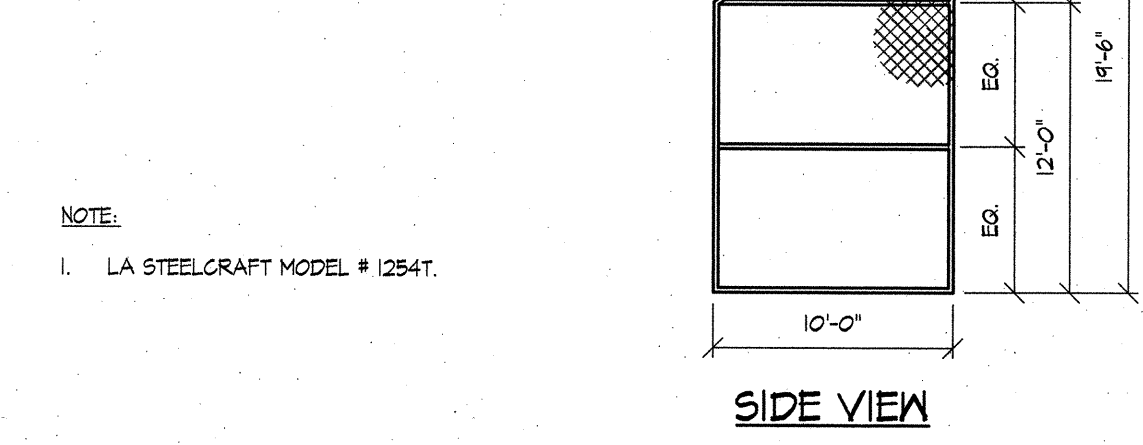
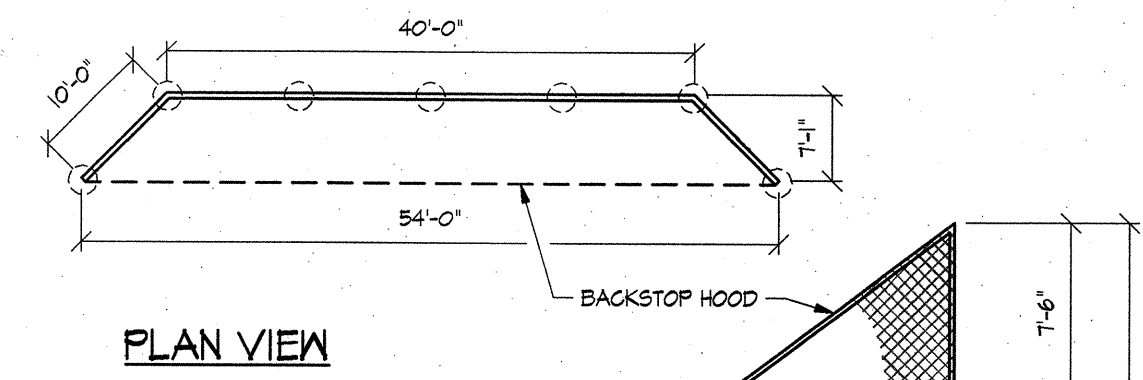


ELEVATION

NOTE:
 1. LA STEELCRAFT MODEL # 1254T.
 2. FENCE POSTS, RAILS, FABRIC, & HARDWARE TO BE HOT DIPPED GALVANIZED.



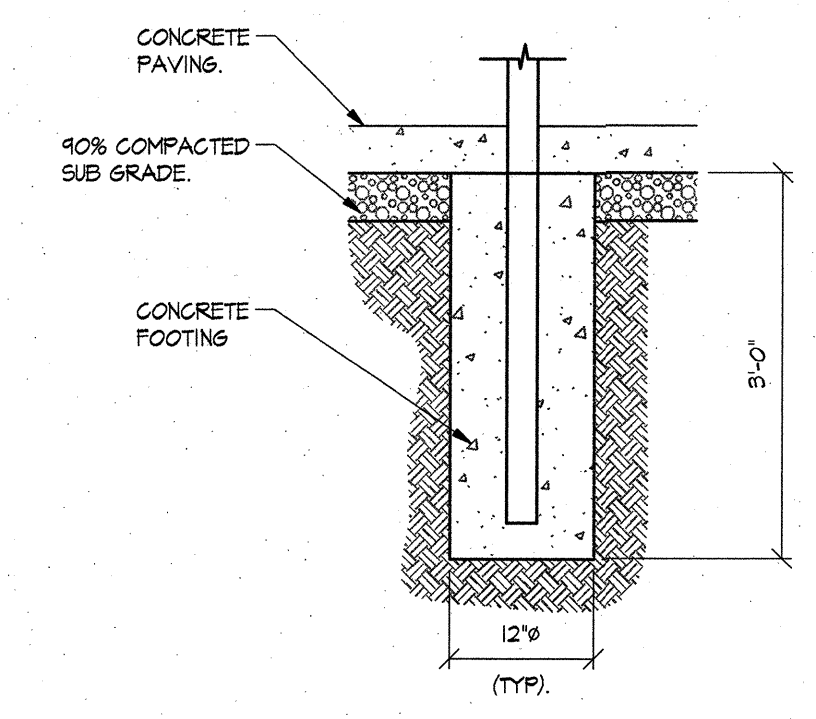
SIDE FENCING



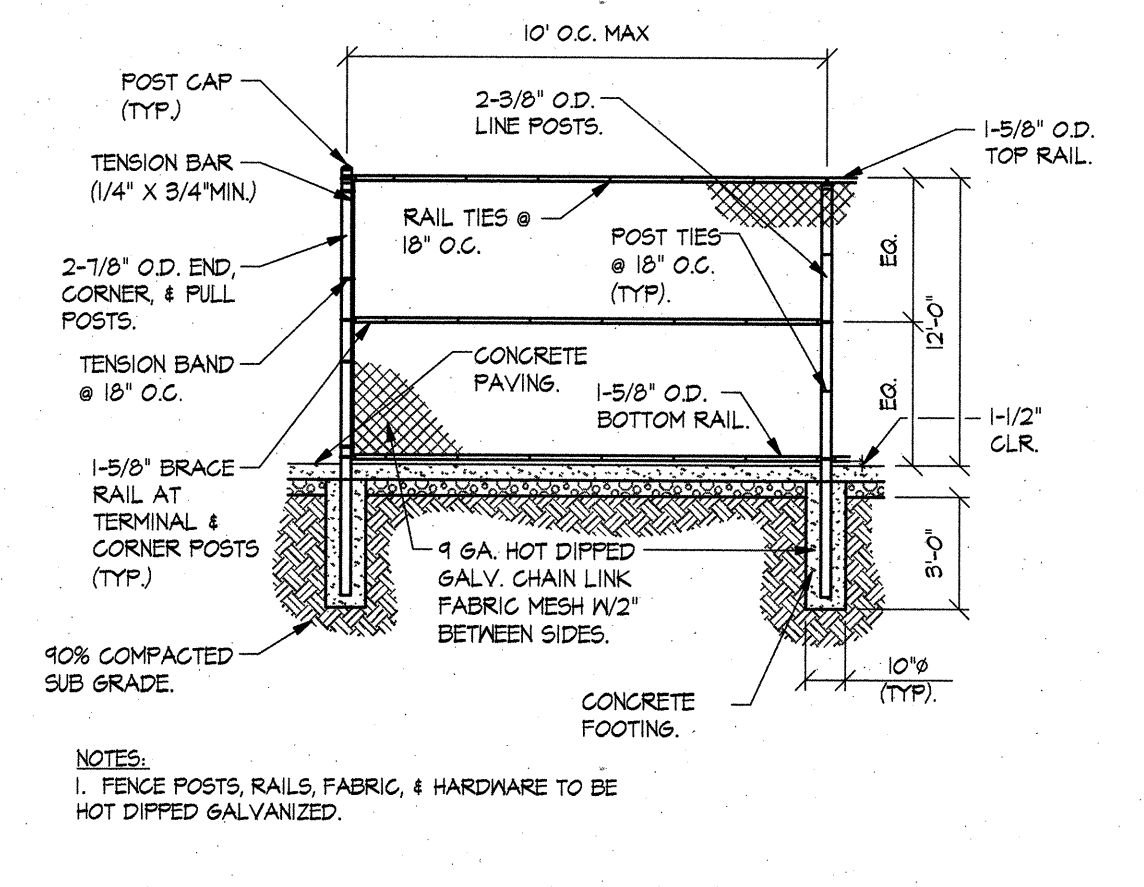
PLAN VIEW

SIDE VIEW

NOTE:
 1. LA STEELCRAFT MODEL # 1254T.



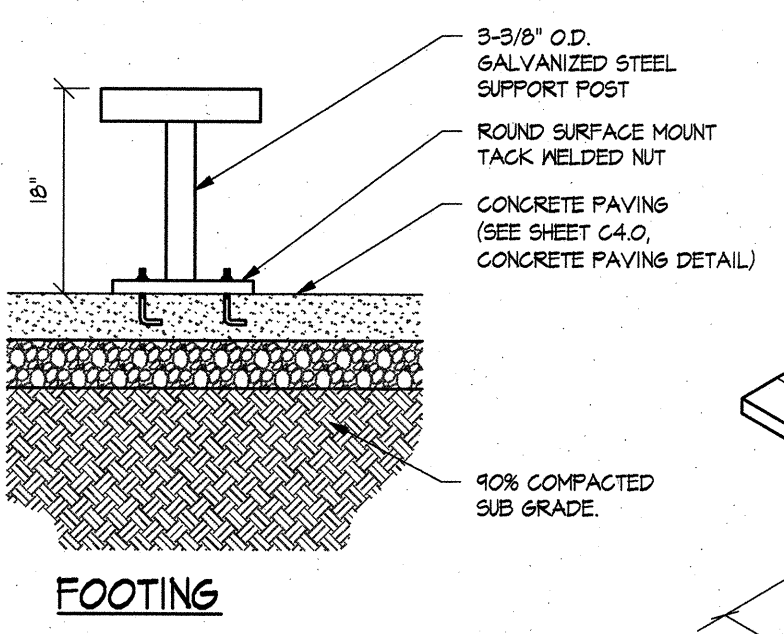
BACKSTOP CONCRETE FOOTING



DUGOUT FENCING

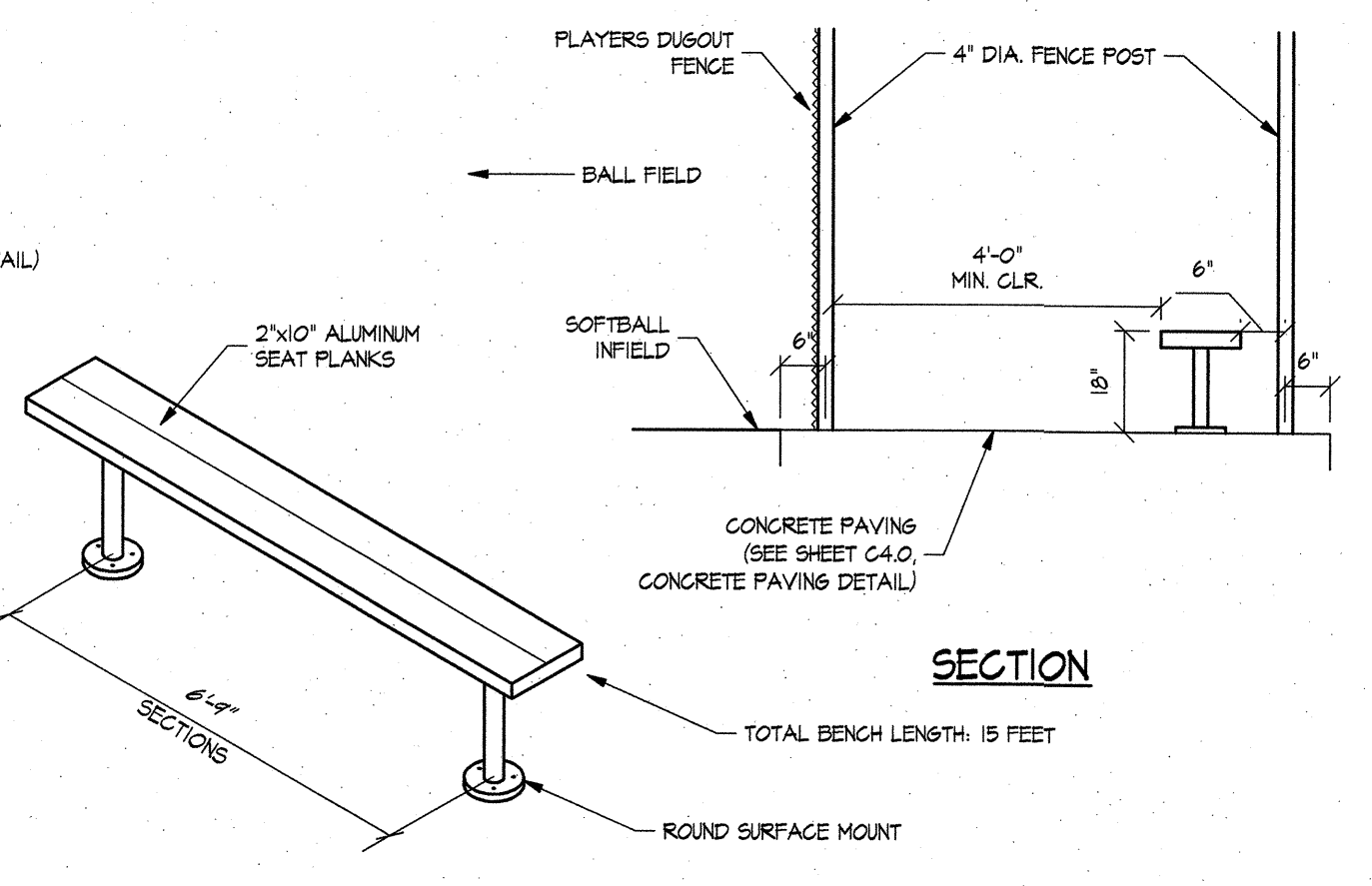
NOTE:
 1. FENCE POSTS, RAILS, FABRIC, & HARDWARE TO BE HOT DIPPED GALVANIZED.

1 BACKSTOP
NTS

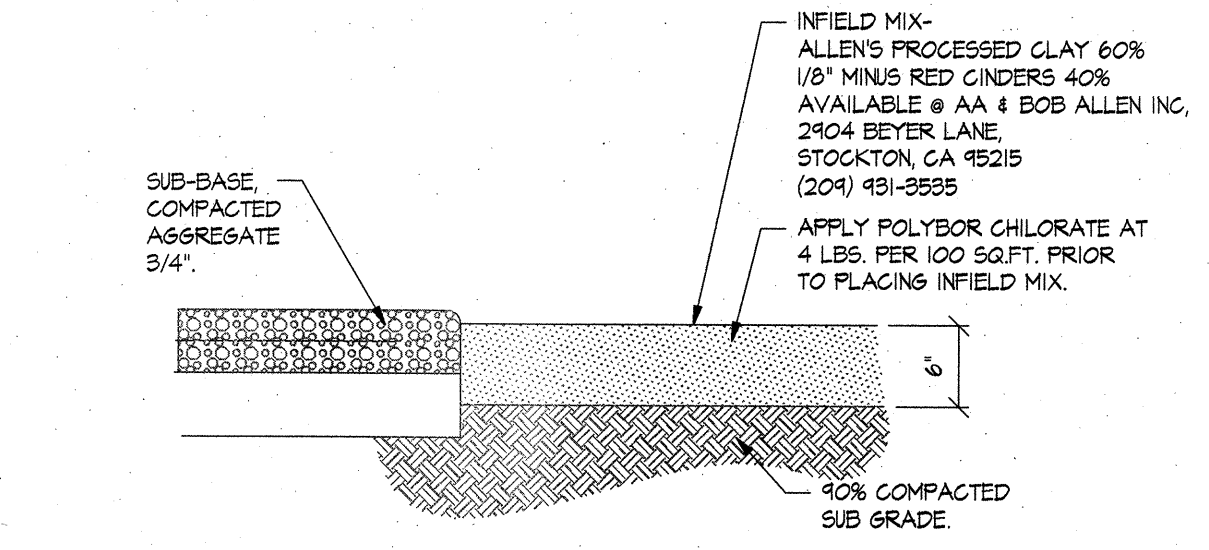


FOOTING

NOTE:
 1. BENCH TO BE NATIONAL RECREATION SYSTEMS, INC., MODEL "PE" PERMANENT BENCH W/O BACK #BE-PEIS, 15' LONG PERMANENT MOUNTED BENCH WITH ALUMINUM SEAT.
 2. INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.



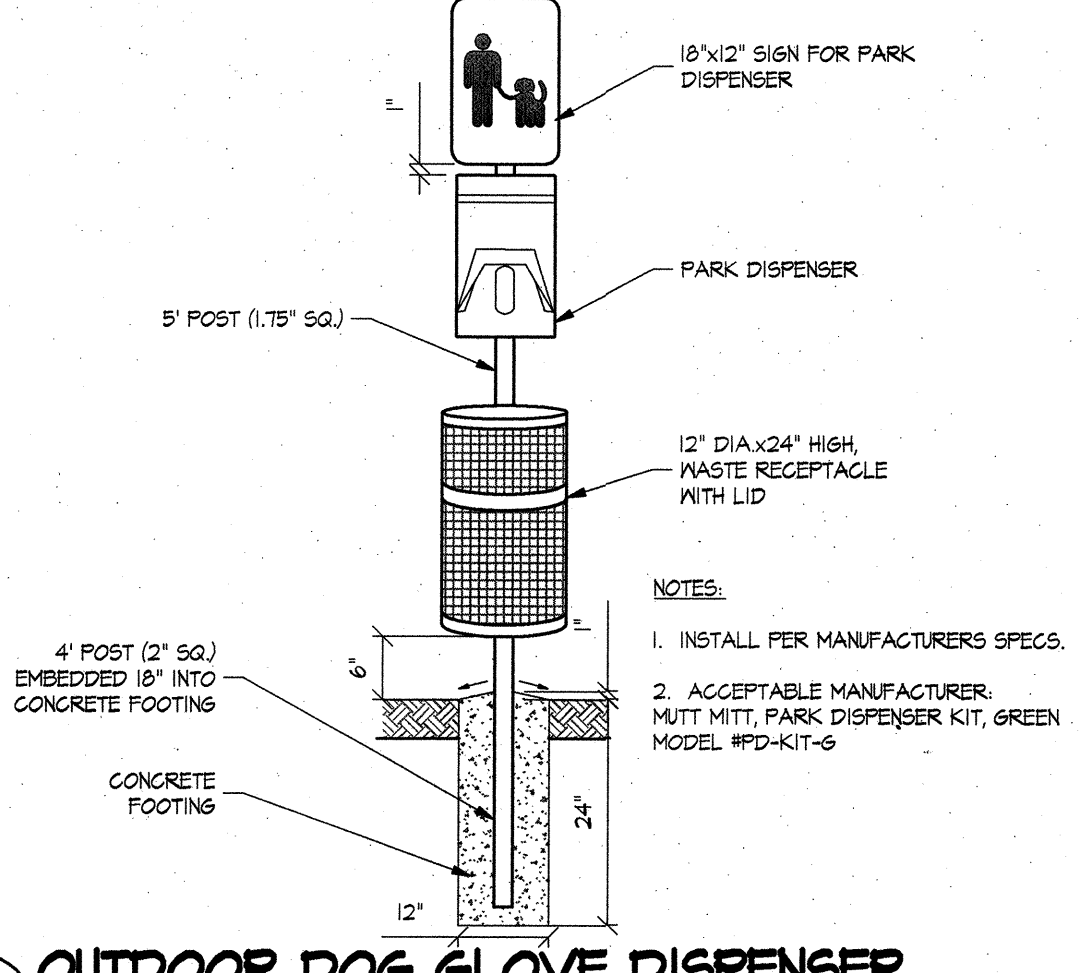
4 PLAYER'S DUGOUT BENCH
NTS



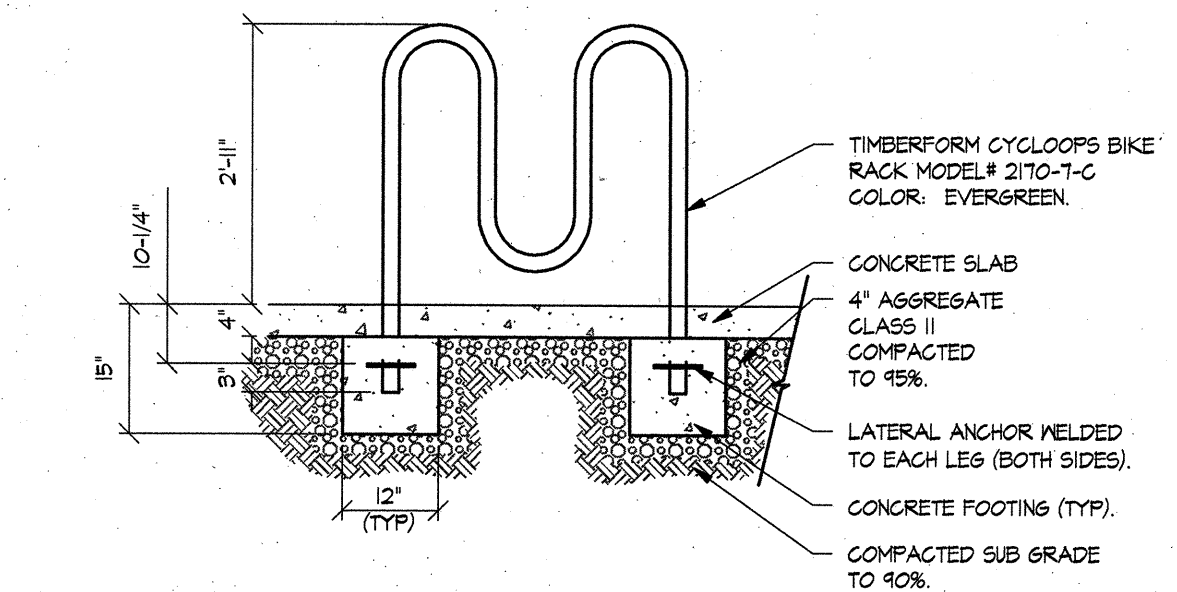
INFIELD SURFACING

NOTE:
 1. SPREAD INFIELD MIX IN 2" LIFTS. WATER LIGHTLY AND COMPACT WITH ROLLER AFTER EACH LIFT. REPEAT PROCESS UNTIL FINAL GRADE ELEVATION IS ACHIEVED.

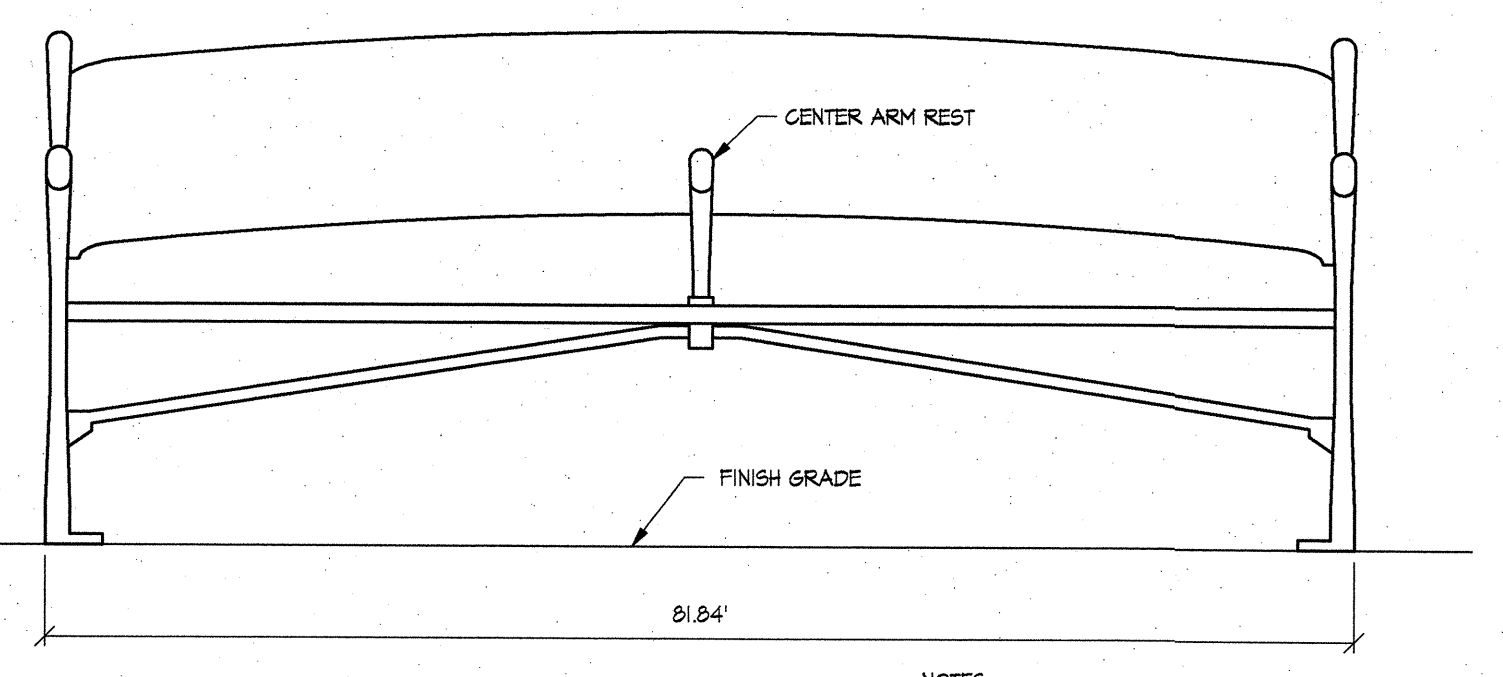
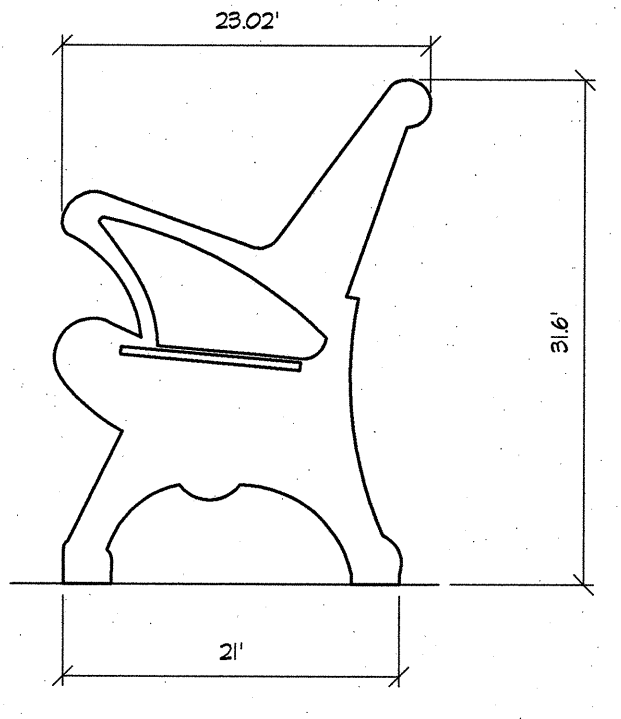
5 INFIELD SURFACING
NTS



6 OUTDOOR DOG GLOVE DISPENSER
NTS

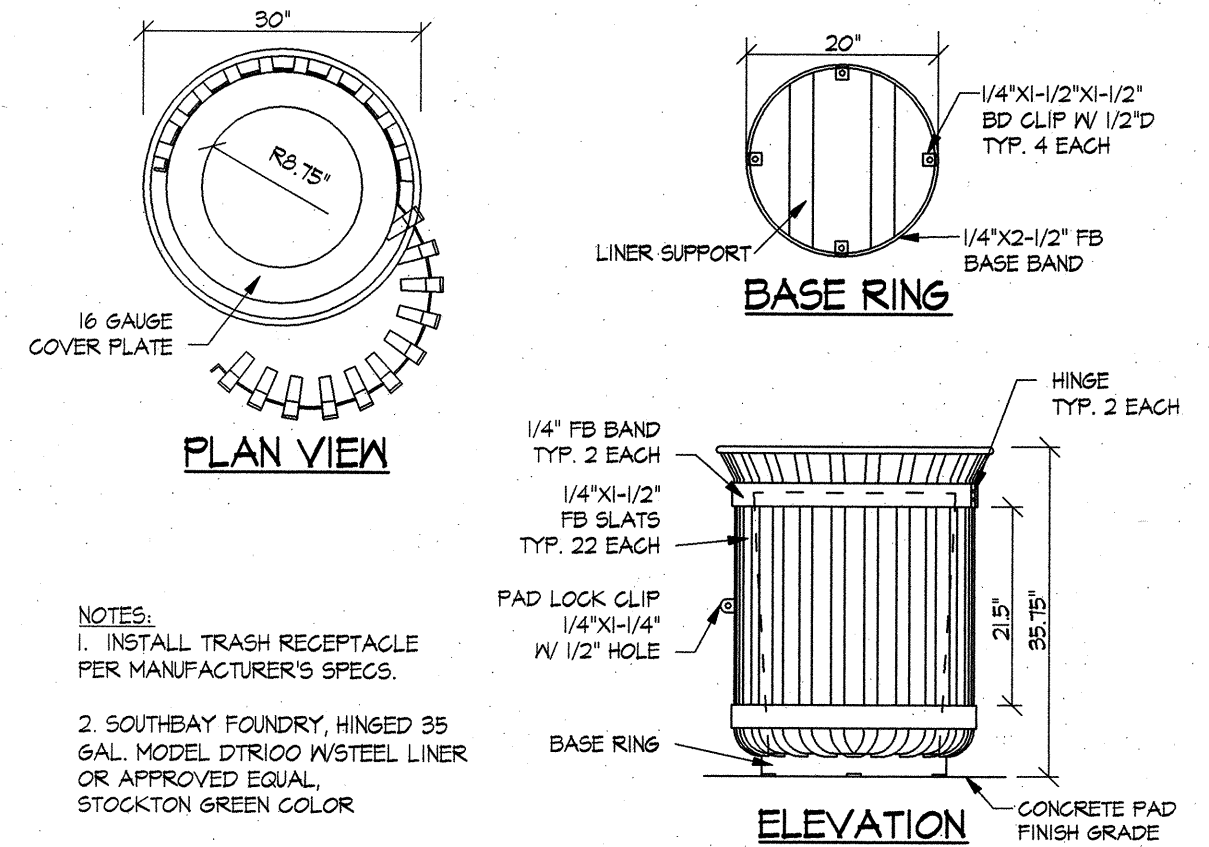


7 BIKE RACK
NTS



8 BENCH
NTS

NOTE:
 1. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
 2. SOUTHBAY FOUNDRY, ITA STYLE 80 (CENTER ARM REST) (OR APPROVED EQUAL) SURFACE MOUNT, TACK WELD NUT, STOCKTON GREEN.



9 TRASH RECEPTACLE
NTS

NOTE:
 1. INSTALL TRASH RECEPTACLE PER MANUFACTURER'S SPECS.
 2. SOUTHBAY FOUNDRY, HINGED 35 GAL. MODEL DTR100 W/STEEL LINER OR APPROVED EQUAL, STOCKTON GREEN COLOR.

10 NOT USED
NTS



MATT EQUINOA PARK PHASE II
 LANDSCAPE DETAILS I

DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		SCALE	APPROVED BY: 7/12/12	SHEET NO. L40
DESIGNED BY: R/N	DRAWN BY: R/N	CHECKED BY: PJS	DATE	14 OF 28 SHEETS
RECORD DWGS.	CITY LANDSCAPE ARCHITECT STOCKTON, CALIFORNIA	PROJECT NO.		



BENCHMARK:
 PER ONSITE CONTROL PLAN ON SHEET C1.0

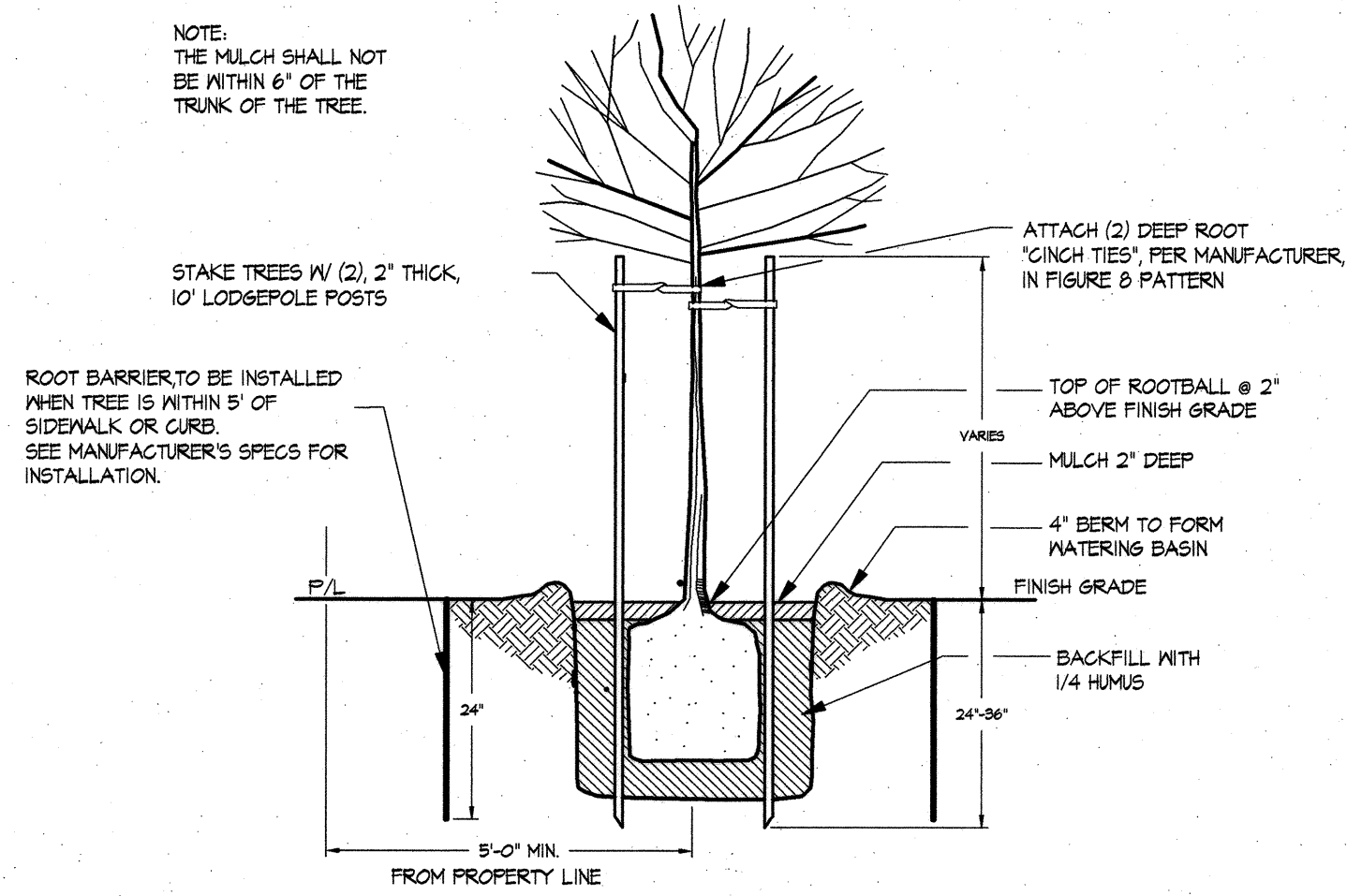
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- LANDSCAPE ARCHITECTURE
- SURVEYING

Revision No.	Description	Date	By	Apprv. By

P:\Users\1189\Bent_Equinoa\1189-L40-LANDSCAPE DETAILS I.dwg

NOTE:
THE MULCH SHALL NOT
BE WITHIN 6" OF THE
TRUNK OF THE TREE.

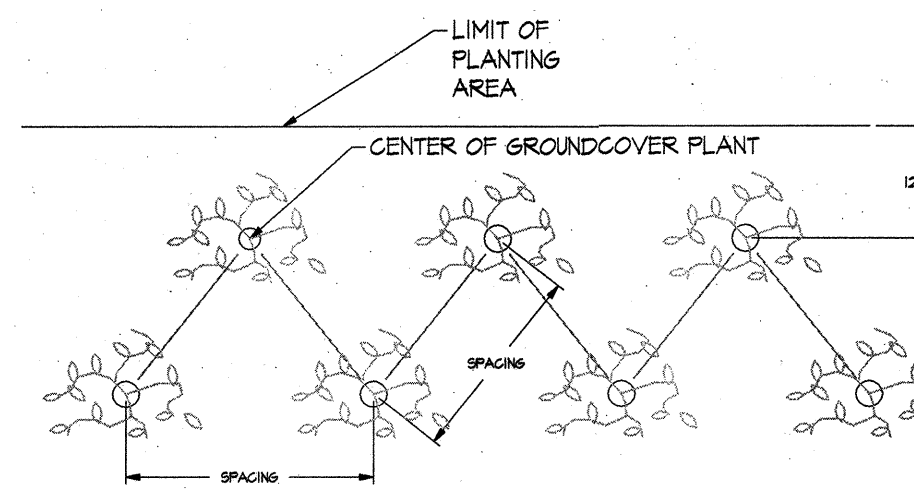


MINIMUM PIT SIZE	PLANT PIT SIZES & PLANT TAB AMOUNTS		
	16 GAL	5 GAL	15 GAL
12"x12"	18"x18"	24"x24"	
AGRIFORM PLANT TABS (20-1/2")	1 EA.	2 EA.	4 EA.
PLANT SPACING FROM PATHS OR PROPERTY LINES	18"	24"	30"

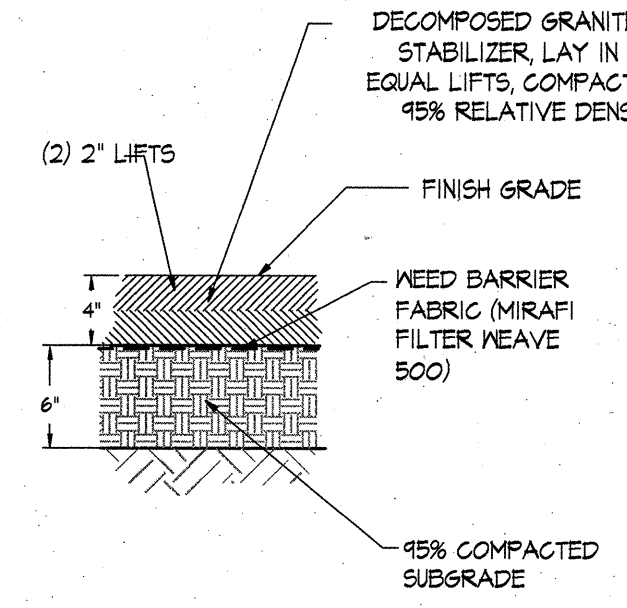
11 TREE PLANTING & STAKING
NTS

12 NOT USED
NTS

NOTE:
AFTER ALL TREES, SHRUBS AND GROUNDCOVER HAVE BEEN PLANTED, A
PRE-EMERGENT SPRAY SHALL BE APPLIED TO ALL PLANTING AREAS
PER MANUFACTURER'S SPECIFICATIONS.
IN ALL AREAS TREATED WITH PRE-EMERGENT HERBICIDE PRIOR TO
PLANTING DUST THE PLANT FITS WITH ACTIVATED CARBON AT A RATE OF
50 LBS. PER 1000 SF BEFORE PLANTING ANY GROUNDCOVER.

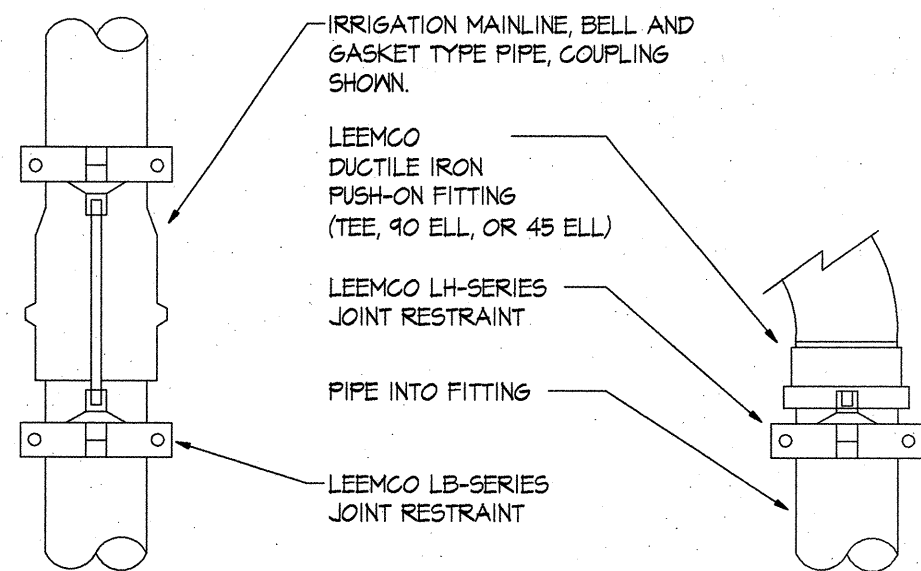


13 GROUNDCOVER SPACING
NTS



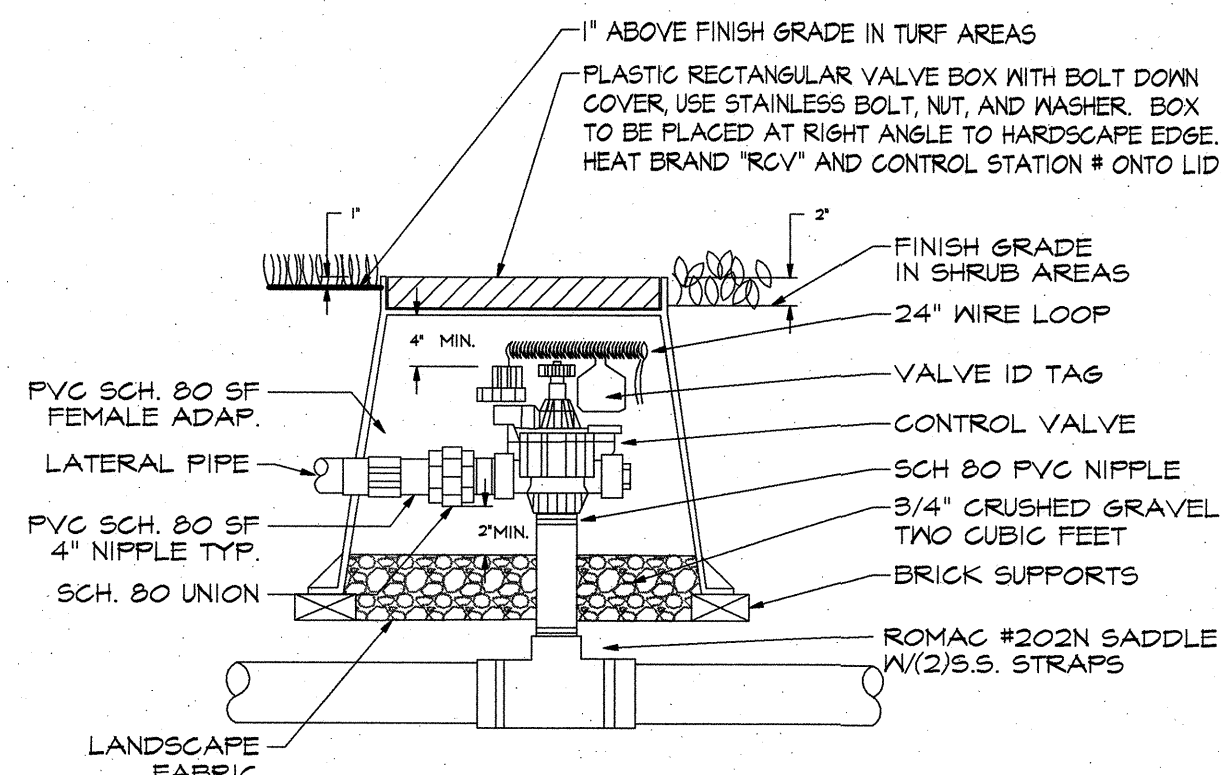
NOTE:
ALL DECOMPOSED GRANITE PAVING SHALL BE CEMENT
STABILIZED, PER SPECIFICATIONS.
FIRST LAYER OF D.G. PAVING SHALL BE COMPACTED BEFORE
INSTALLATION OF SECOND LAYER.

14 DECOMPOSED GRANITE
NTS



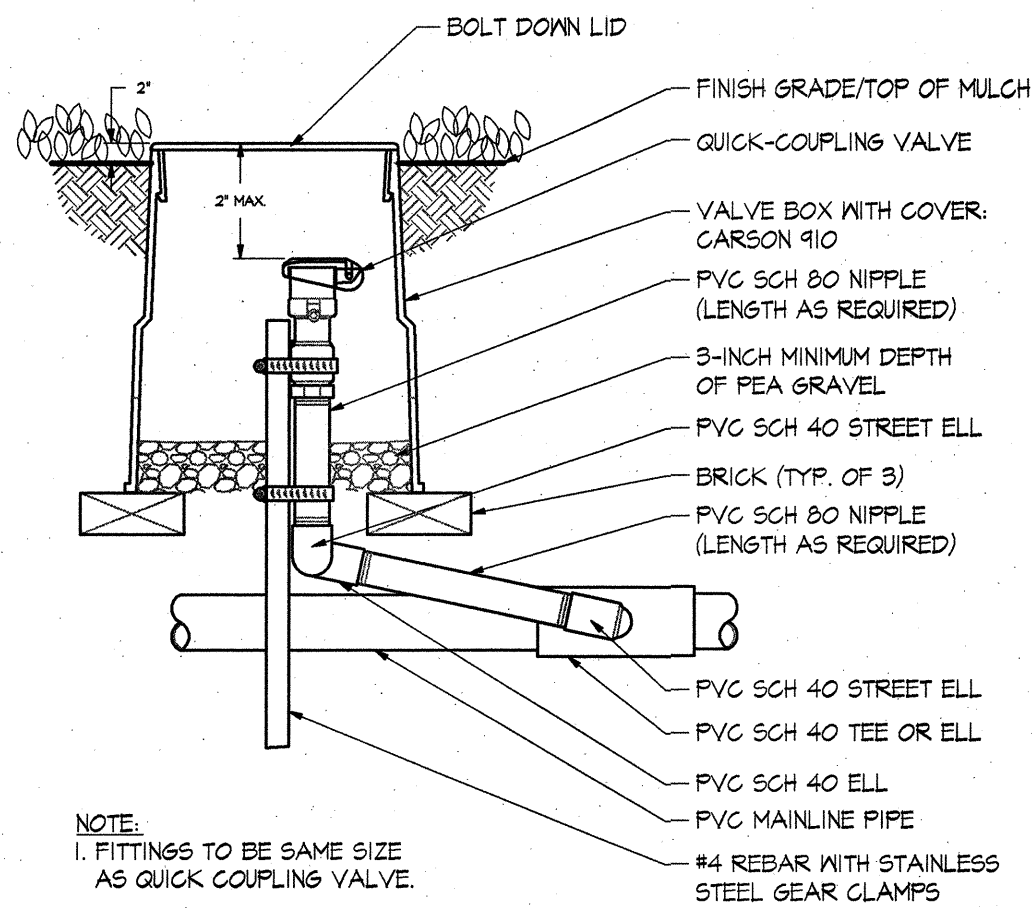
1. USE JOINT RESTRAINTS ON ALL BELL AND GASKET MAINLINE PIPE.
2. USE THRUST BLOCKS ON ALL SOLVENT WELD MAINLINE PIPE.
3. USE LB SERIES RESTRAINTS FOR BELL AND GASKET JOINTS.
4. USE LH SERIES RESTRAINTS FOR PVC PIPE TO LEEMCO FITTINGS INCLUDING 45 ELLS, 90 ELLS, MAINLINE TEES, AND VALVE STUB OUTS.
5. USE TWO LH SERIES RESTRAINTS AND TWO TIE-BARS FOR PUSH ON GATE VALVES, SEE LEEMCO RECOMMENDATIONS.
6. USE TWO LMJ SERIES RESTRAINTS (CONSISTING OF ONE LH SERIES RESTRAINT AND TWO M-J-LK LINKS) FOR FLANGED GATE VALVES.
7. USE TWO LMJ SERIES RESTRAINTS (CONSISTING OF ONE LH SERIES RESTRAINT AND TWO M-J-LK LINKS) FOR FLANGED BUTTERFLY VALVES.
8. SIZE OF RESTRAINT TO BE AS PER PIPE AND FITTING USED.

15 PIPE RESTRAINTS
NTS (6" MAINLINE)



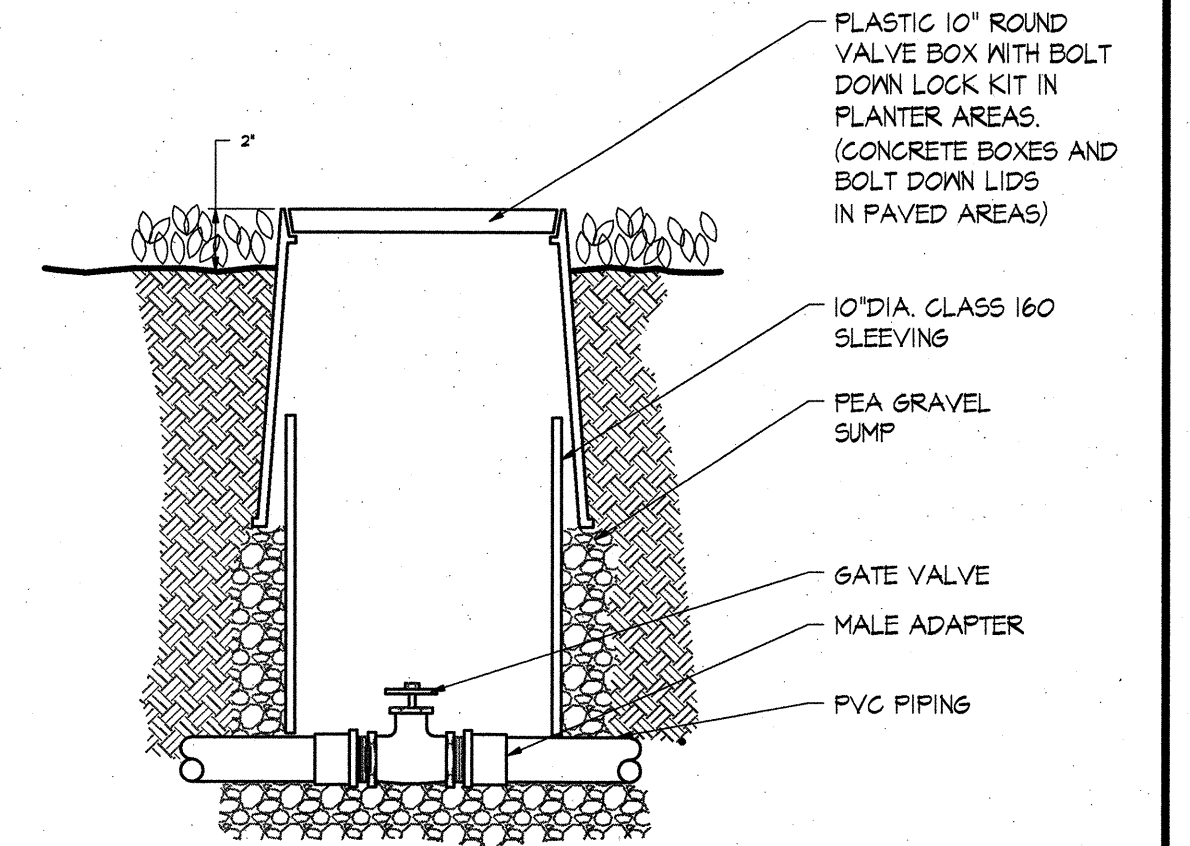
16 REMOTE CONTROL VALVE
NTS (ROTOR VALVE-BOTTOM INLET)

17 NOT USED
NTS

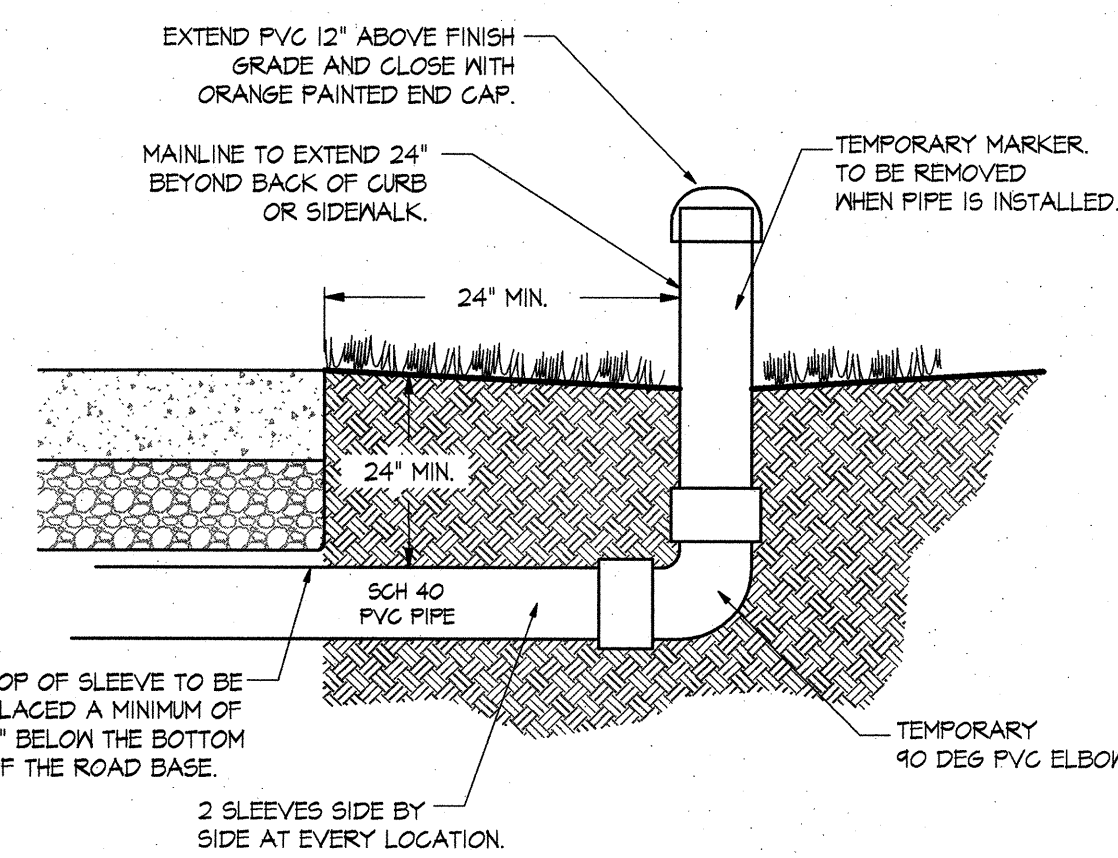


NOTE:
1. FITTINGS TO BE SAME SIZE AS QUICK COUPLER VALVE.

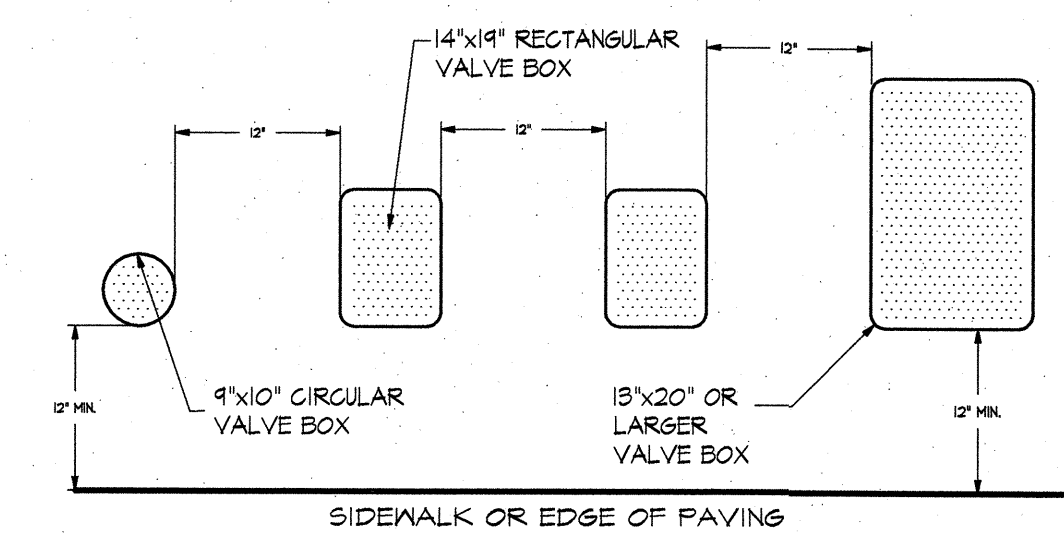
18 QUICK COUPLER
NTS



19 GATE VALVE
NTS

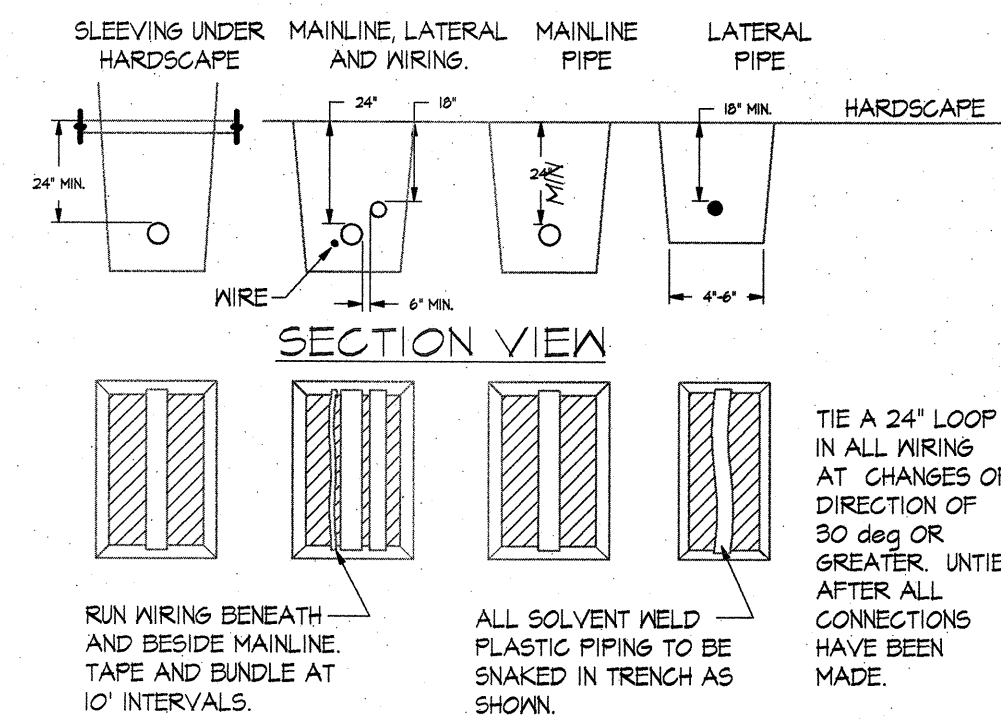


20 PIPE SLEEVE W/ 90° ELBOW
NTS



- NOTES:
1. CENTER BOX OVER VALVE TO FACILITATE SERVICING VALVE.
 2. SET BOXES 2" ABOVE FINISH GRADE IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
 3. SET VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN AREA ONLY IF GROUND COVER/SHRUB AREA DOES NOT EXIST ADJACENT TO LAWN.
 4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
 5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOX EDGES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
 6. VALVE BOXES SHALL HAVE BOLT DOWN LIDS WITH BOLTS INSTALLED.

21 VALVE BOX
NTS



- NOTES:
1. SLEEVE 24" BELOW ALL HARDSCAPE ELEMENTS WITH SCH. 40 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
 2. FOR PIPE AND WIRE BURIAL DEPTHS SEE SPECIFICATIONS.
 3. SNAKE ALL PLASTIC PIPING IN TRENCHES FROM SIDE TO SIDE AS SHOWN, AT A 50' INTERVAL.

22 PIPE AND WIRE TRENCHING
NTS

23 NOT USED
NTS



BENCHMARK:
PER ONSITE CONTROL PLAN ON SHEET C1.0



DATE SIGNED: 05/07/12

MATT EQUINOA PARK PHASE II
LANDSCAPE DETAILS II

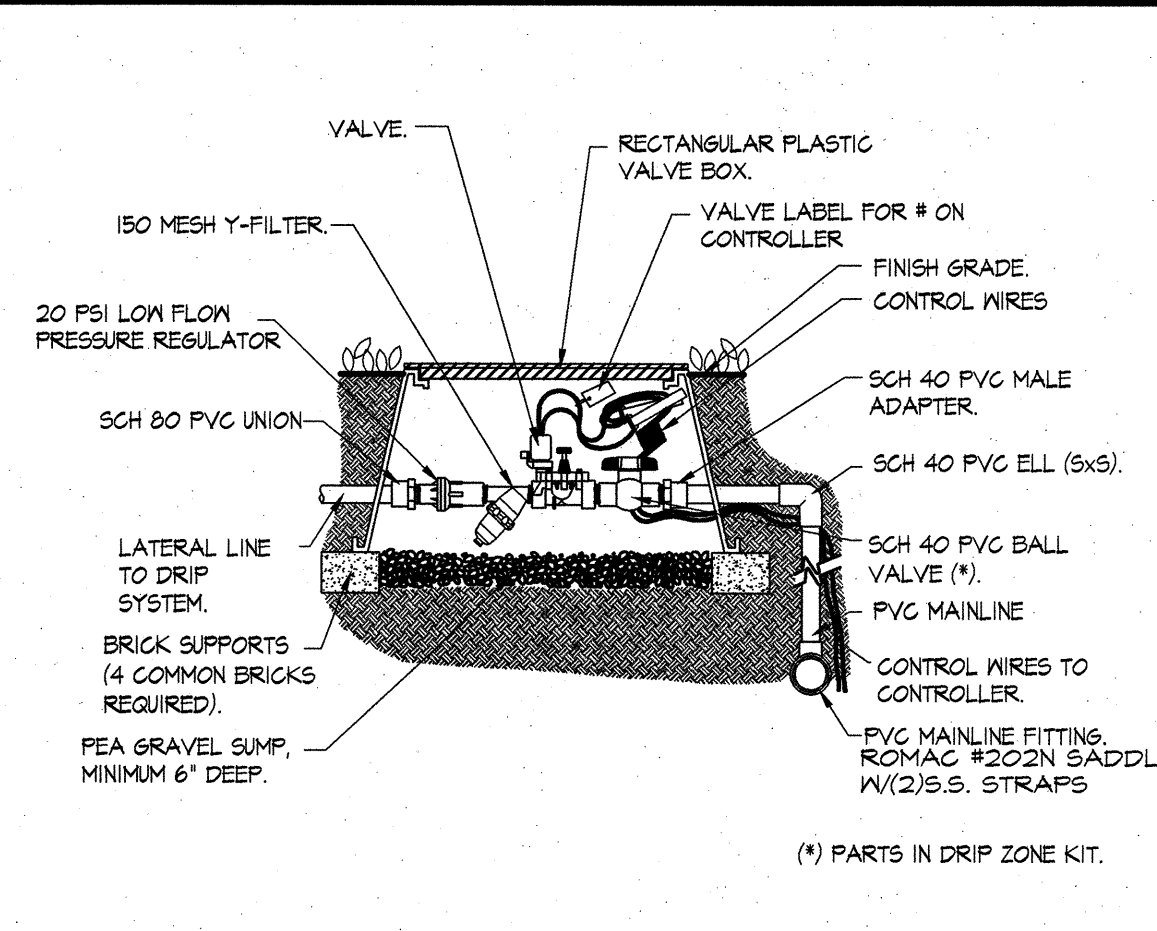
DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

SCALE	APPROVED BY: 7/12/12 DATE	SHEET NO. L41 15 OF 28 SHEETS
DESIGNED BY: R.N.	CITY LANDSCAPE ARCHITECT STOCKTON, CALIFORNIA	PROJECT NO.
DRAWN BY: R.N.		
CHECKED BY: PJS		
RECORD DWGS.		

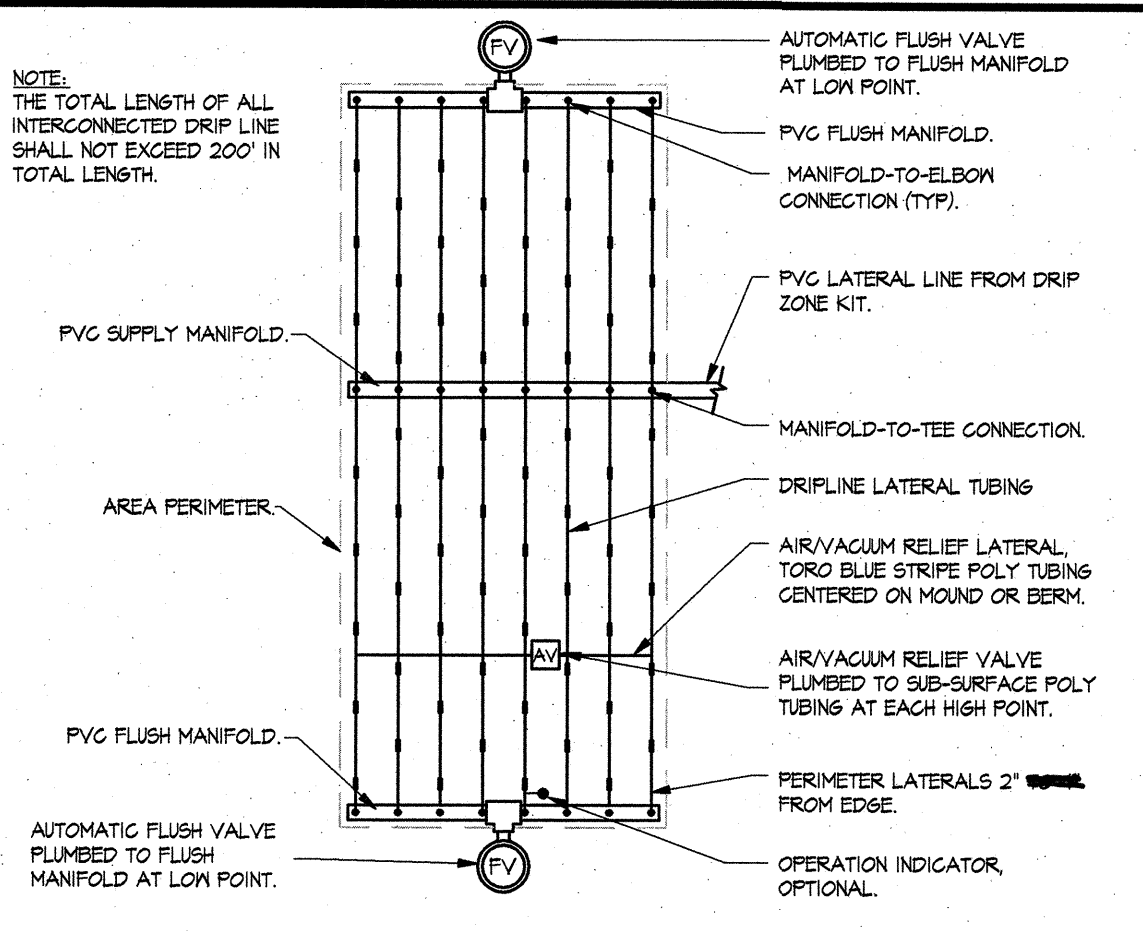
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- SURVEYING

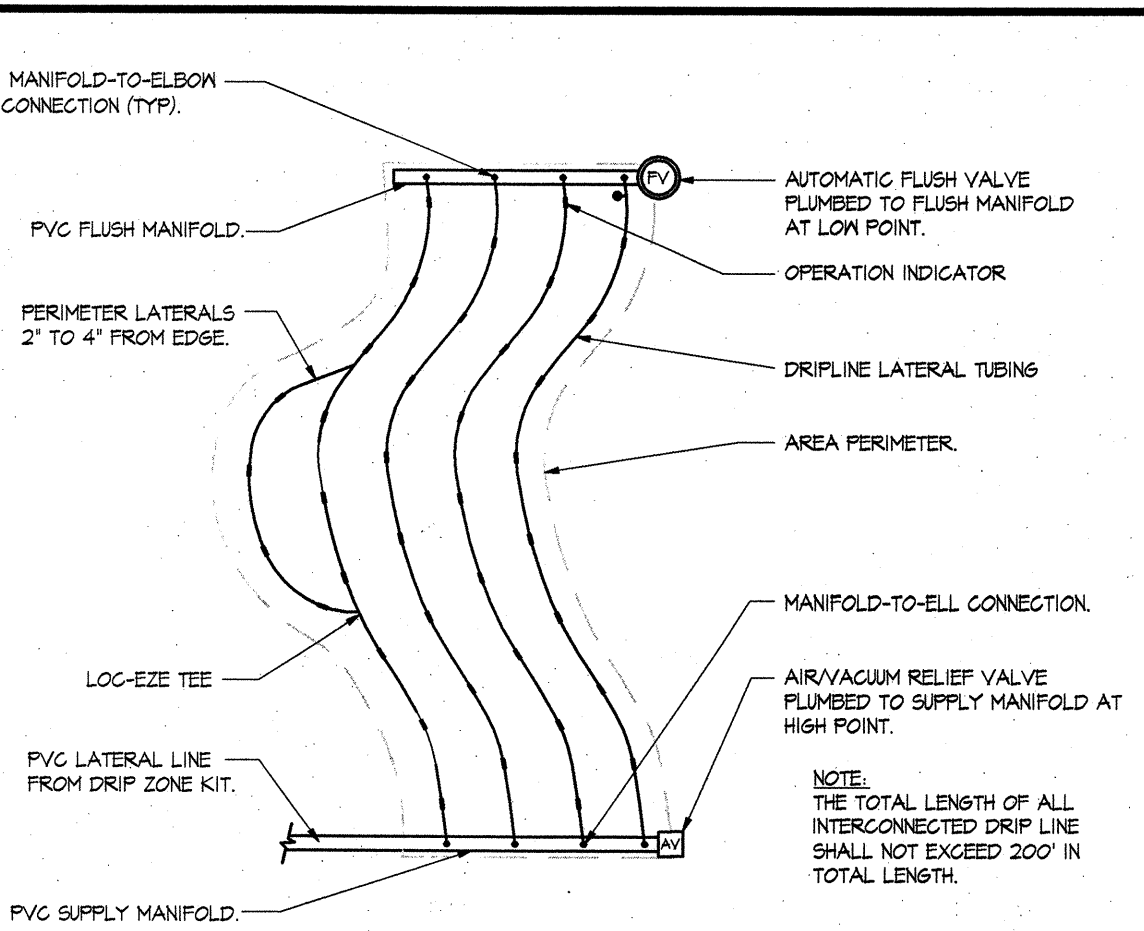
Revision No.	Description	Date	By	Apprvd. By



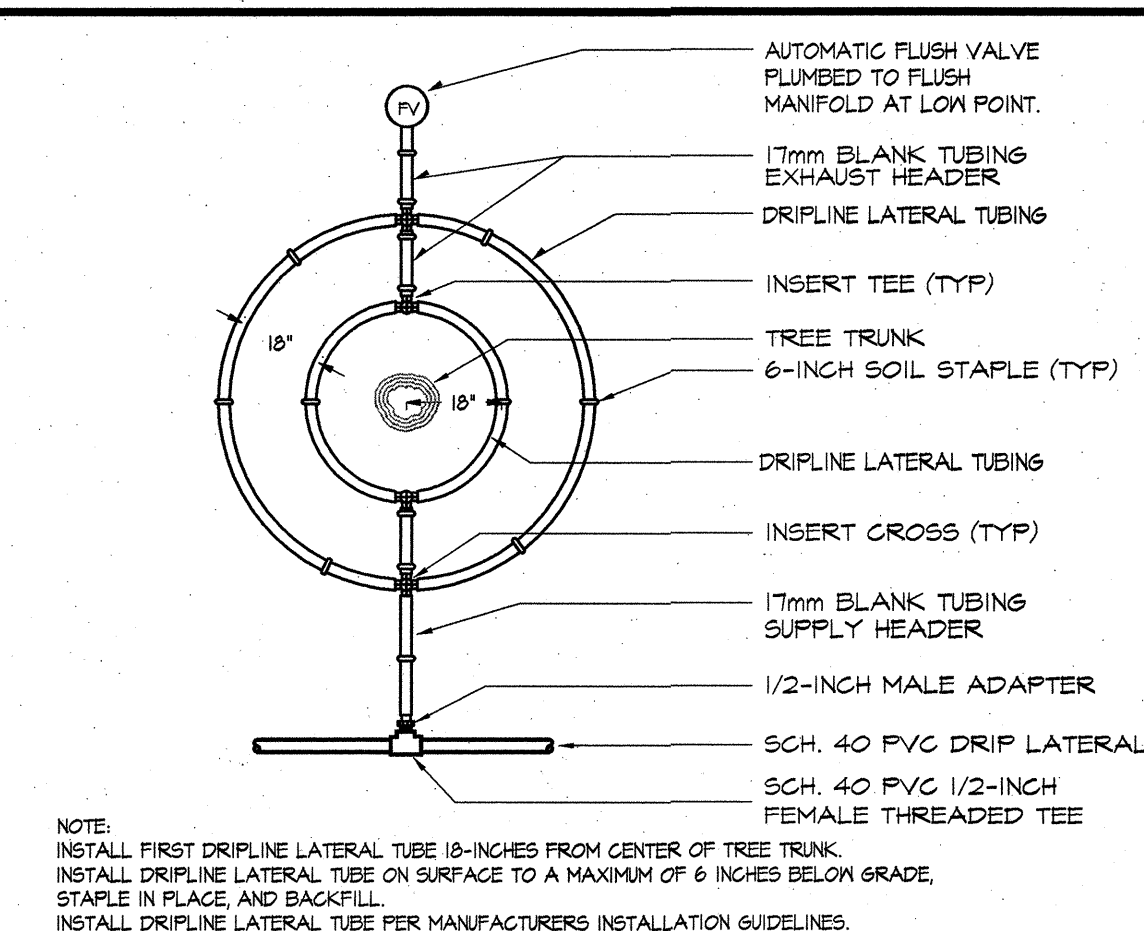
24 DRIP ZONE KIT
NTS



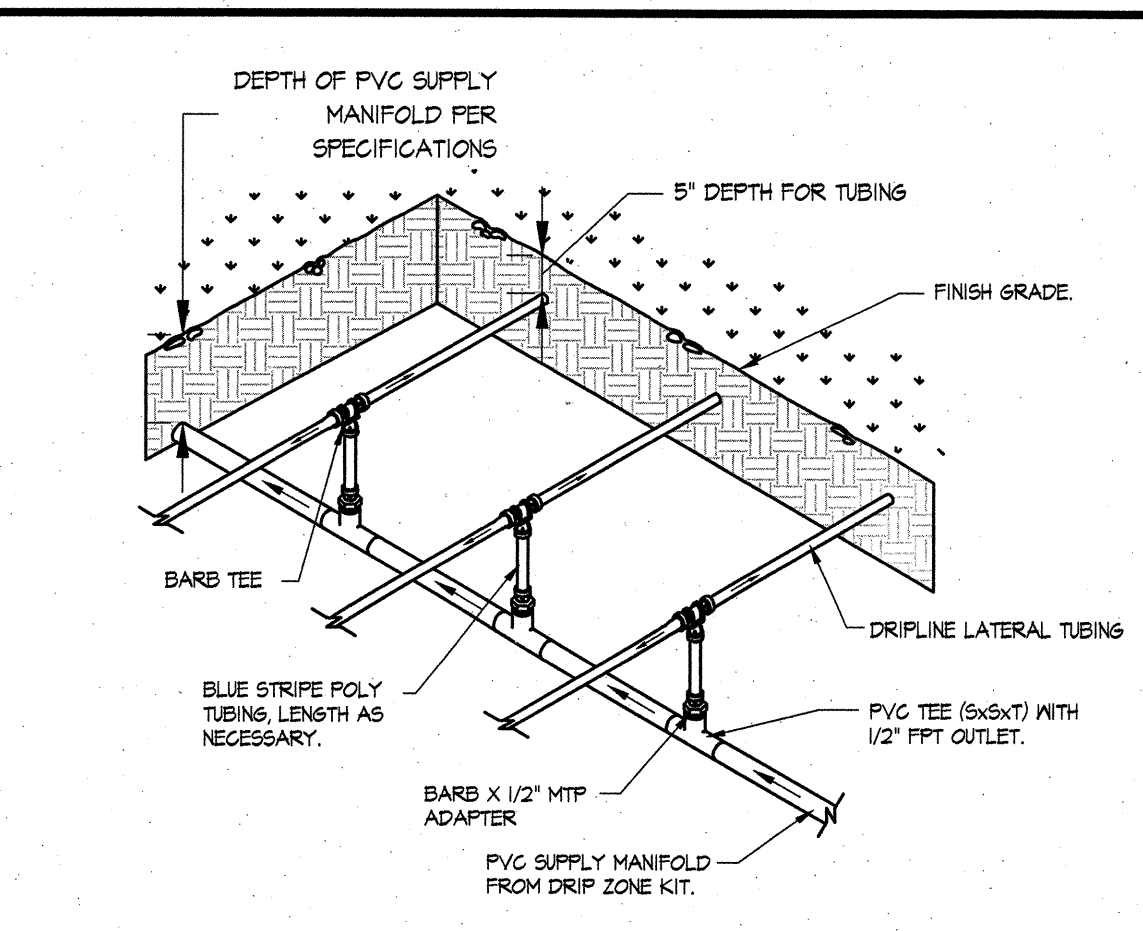
25 CENTER-FEED LAYOUT SUB-SURFACE DRIPLINE
NTS



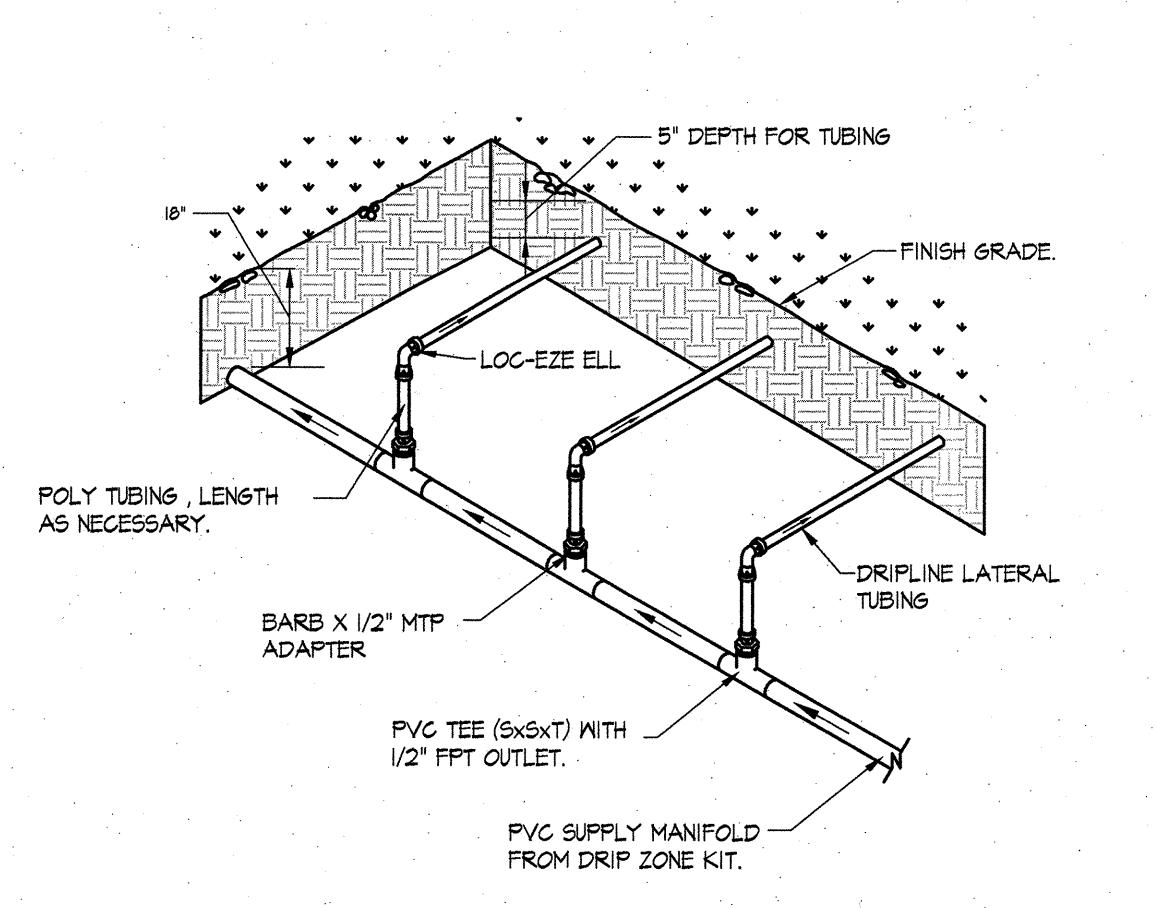
26 ODD-CURVES LAYOUT SUB-SURFACE DRIPLINE
NTS



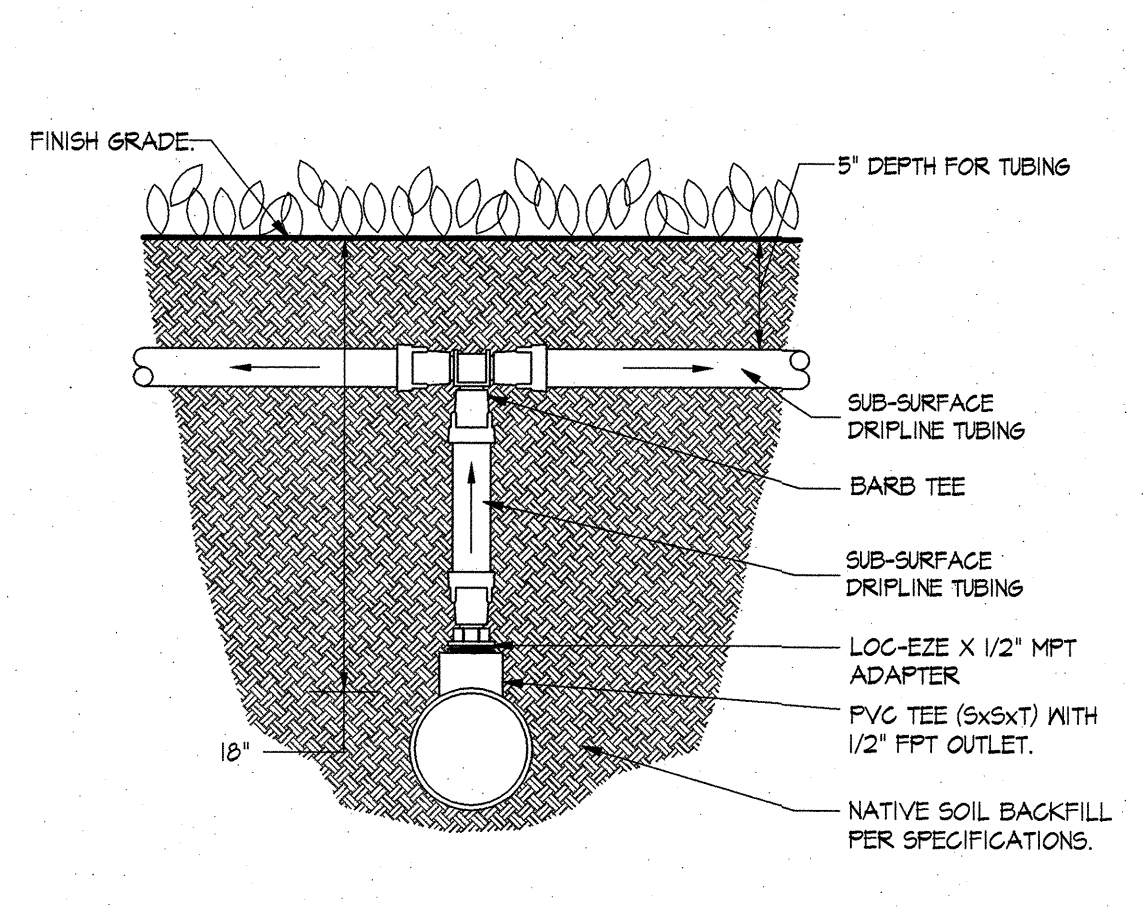
27 TWO RING TREE LAYOUT SUB-SURFACE DRIPLINE
NTS



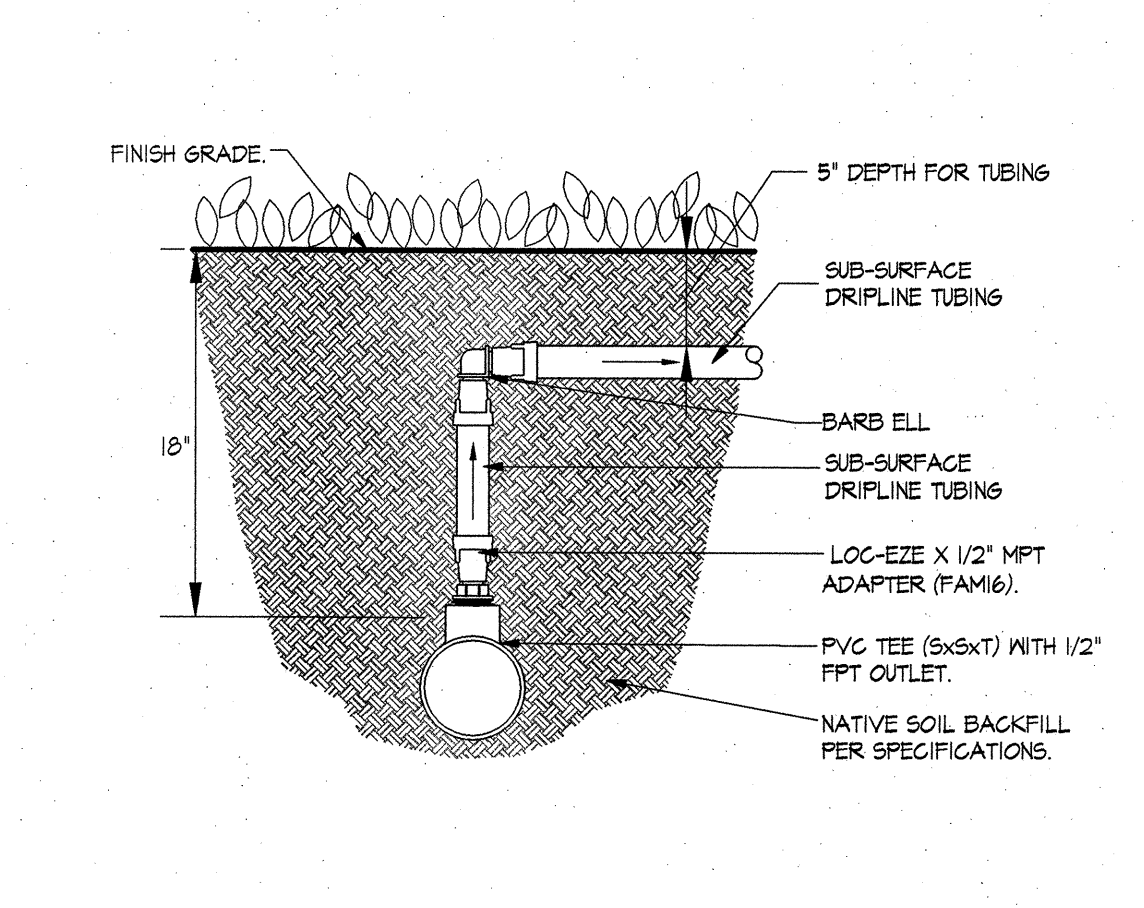
28 MANIFOLD CENTER FEED SUB-SURFACE DRIPLINE
NTS



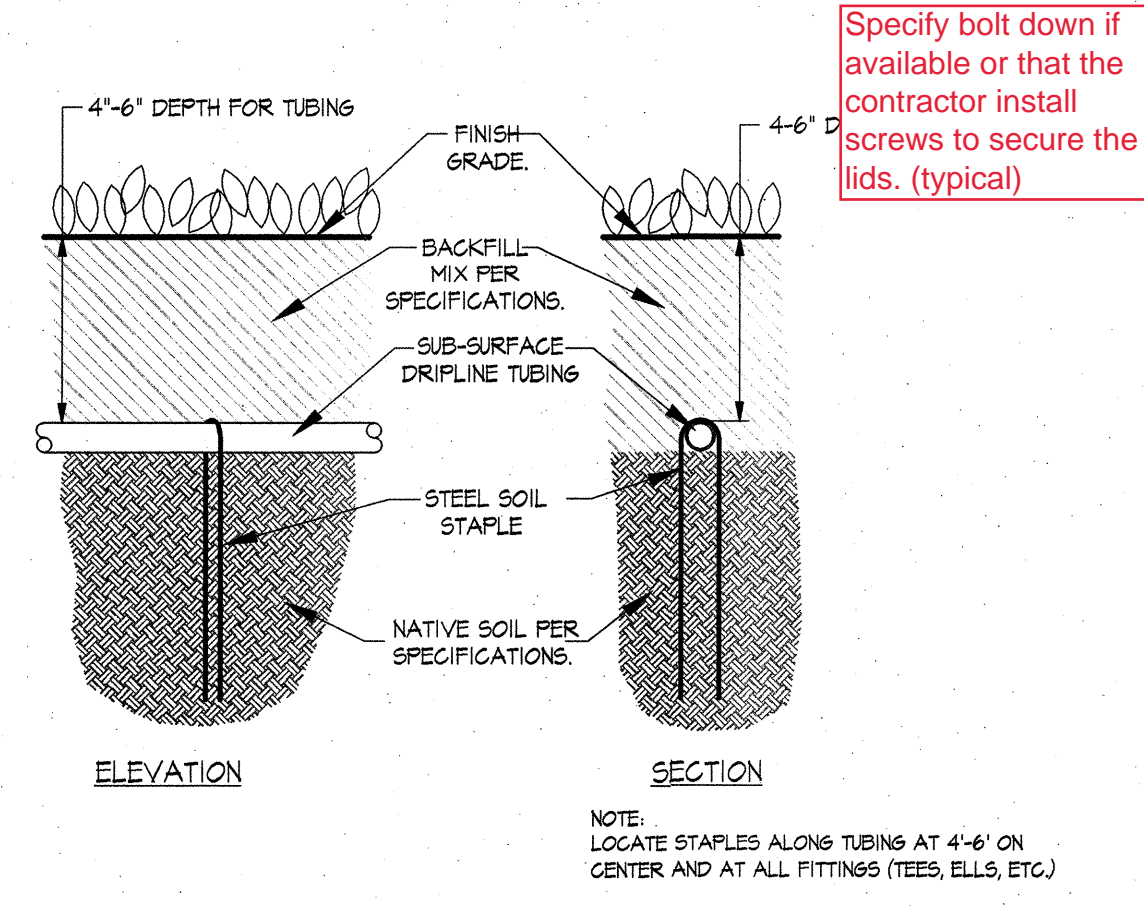
29 MANIFOLD END FEED SUB-SURFACE DRIPLINE
NTS



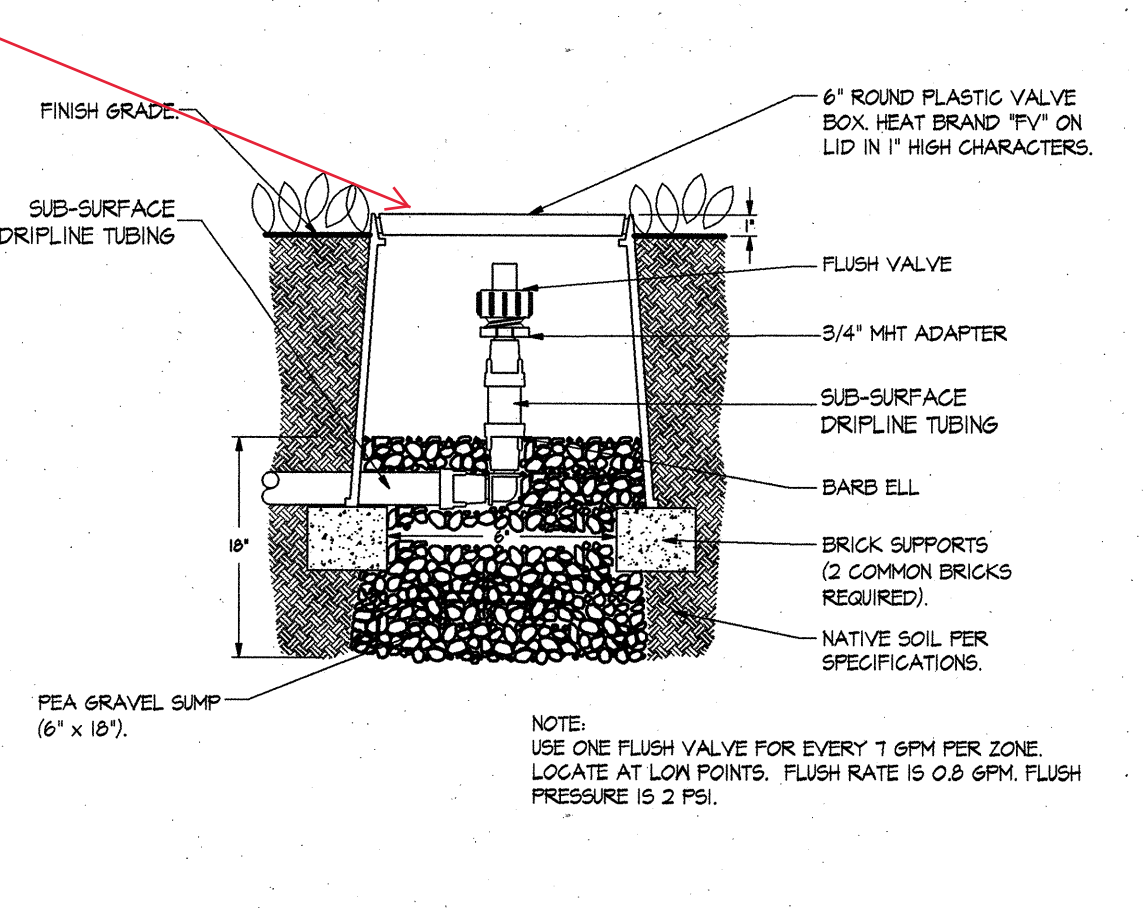
30 MANIFOLD-TEE CONNECTION SUB-SURFACE DRIPLINE
NTS



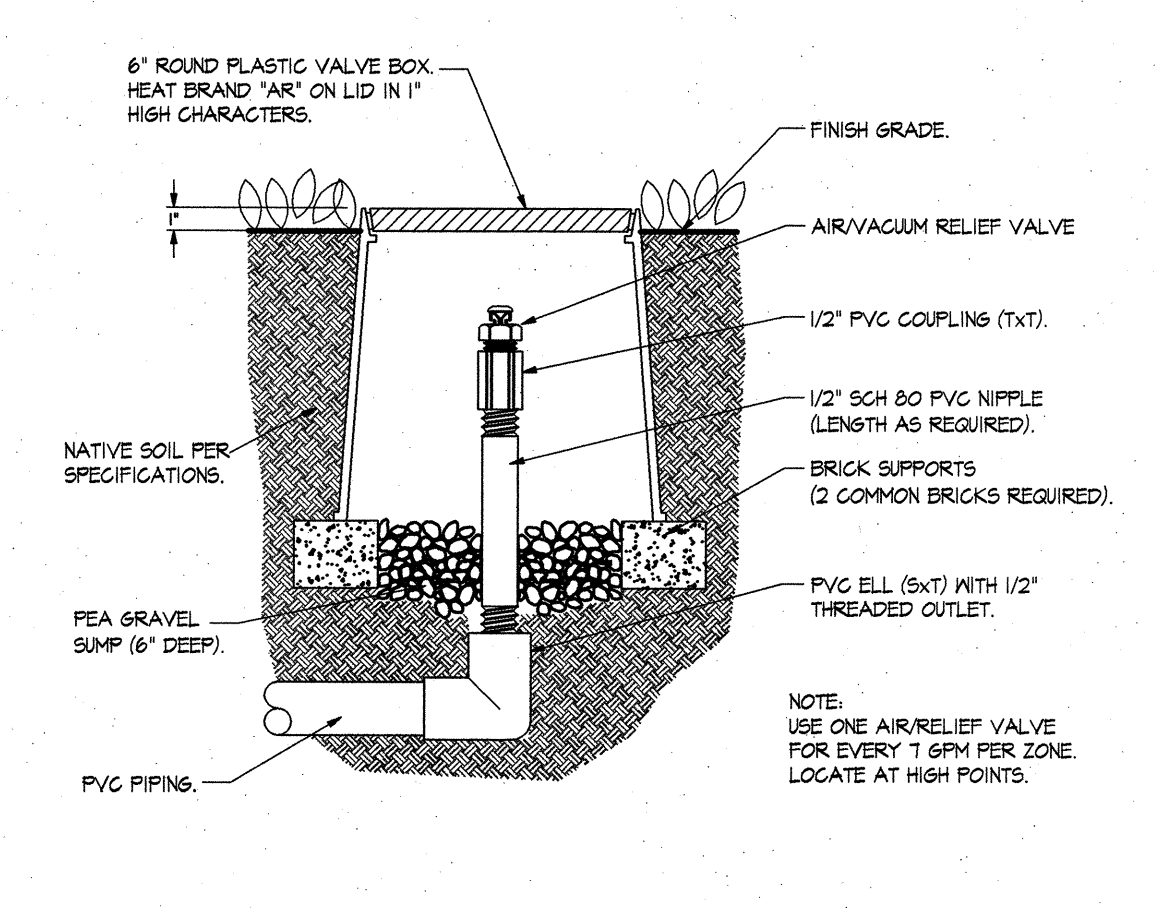
31 MANIFOLD-ELL CONNECTION SUB-SURFACE DRIPLINE
NTS



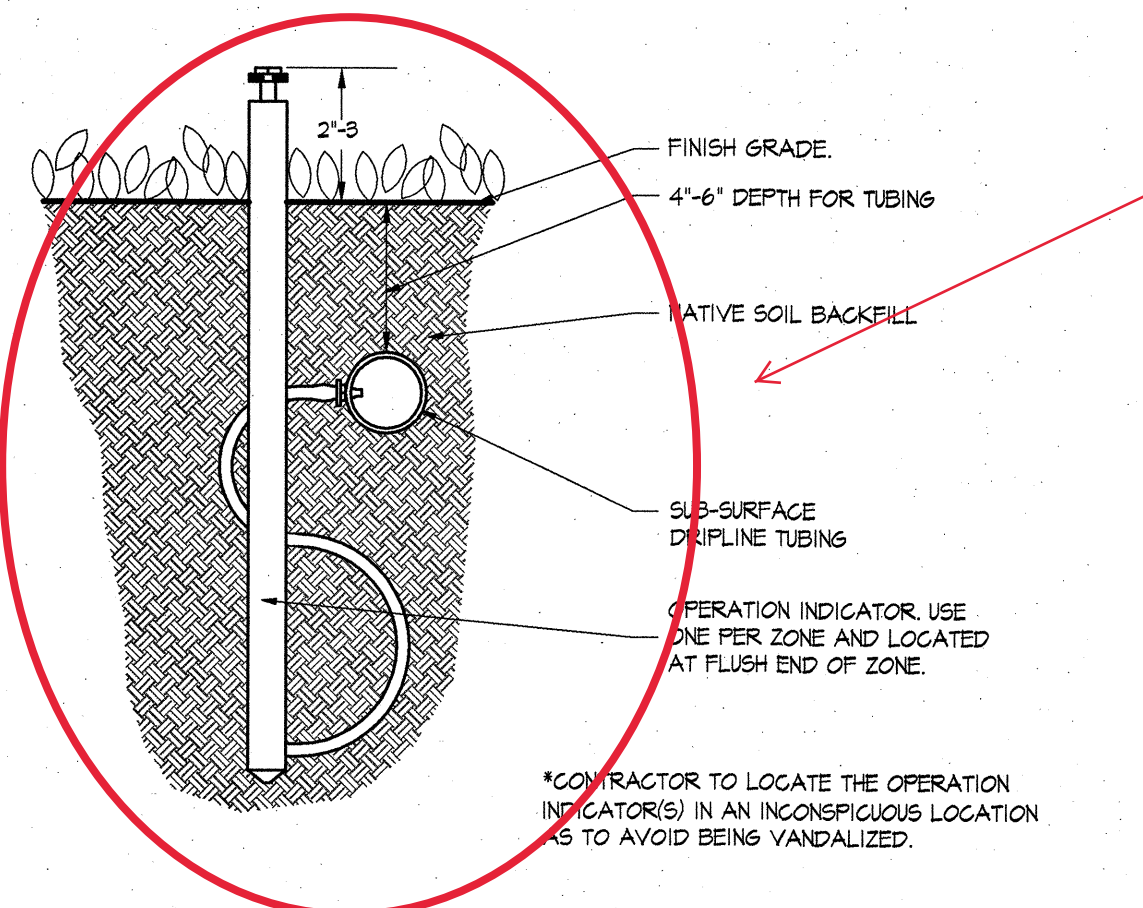
32 STEEL STAPLE-BELOW GRADE SUB-SURFACE DRIPLINE
NTS



33 FLUSH VALVE-POLY ELL SUB-SURFACE DRIPLINE
NTS



34 AIR/VACUUM RELIEF VALVE SUB-SURFACE DRIPLINE
NTS



35 OPERATION INDICATOR SUB-SURFACE DRIPLINE
NTS

36 NOT USED
NTS

Specify bolt down if available or that the contractor install screws to secure the lids. (typical)

These get vandalized. How about if we put them below ground in a little valve box?

SUBSURFACE IRRIGATION NOTES

- PIPE DEPTH FOR DRIPLINE IS 4\"/>



DATE SIGNED: 05/07/12

MATT EQUINOA PARK PHASE II
DRIPLINE DETAILS

DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		SCALE	APPROVED BY: <i>[Signature]</i> DATE: 7/12/12	SHEET NO. L42
DESIGNED BY R.N.	DRAWN BY R.N.	CHECKED BY P.J.S.	CITY LANDSCAPE ARCHITECT STOCKTON, CALIFORNIA	16 OF 28 SHEETS
RECORD DWGS.				PROJECT NO.



BENCHMARK:
PER ONSITE CONTROL PLAN ON SHEET C1.0

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- SURVEYING

Revision No.	Description	Date	By	Apprvd. By

P:\Users\11188 Matt Equinoa\11188P-L2-DRIPLINE DETAILS.dwg

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	WIRE	FSI	PSI @ POC	GPM	PRECIP
44D	Netafim LFC210075-HF	1"	Area for Dnpline		45.22	54.94	8.35	0.23 in/h
41D	Netafim LFC210075-HF	1"	Area for Dnpline		45.32	54.96	8.47	0.23 in/h
45D	Netafim LFC210075-HF	1"	Area for Dnpline		47.30	57.47	14.18	0.23 in/h
46D	Netafim LFC210075-HF	1"	Area for Dnpline		47.31	57.77	17.59	0.23 in/h
47D	Netafim LFC210075-HF	1"	Area for Dnpline		48.76	60.55	28.95	0.23 in/h
38T	Netafim LFC210075-HF	1"	Area for Dnpline		45.18	54.76	5.93	0.23 in/h
39T	Netafim LFC210075-HF	1"	Area for Dnpline		45.09	54.63	3.43	0.23 in/h
40T	Netafim LVC210075-LF	1"	Area for Dnpline		45.09	54.62	2.50	0.23 in/h
43T	Netafim LFC210075-HF	1"	Area for Dnpline		46.55	56.14	6.24	0.23 in/h
42T	Netafim LFC210075-HF	1"	Area for Dnpline		45.35	54.91	4.99	0.23 in/h
28L	Gnswold 2030	3"	Turf Rotor		59.64	85.44	96.59	0.51 in/h
31L	Gnswold 2030	2-1/2"	Turf Rotor		59.60	80.21	66.54	0.53 in/h
37L	Gnswold 2030	2"	Turf Rotor		60.89	81.03	83.31	0.50 in/h
32L	Gnswold 2030	1-1/2"	Turf Rotor		58.34	68.74	19.82	0.59 in/h
33L	Gnswold 2030	1-1/2"	Turf Rotor		63.54	75.55	34.55	0.66 in/h
36L	Gnswold 2030	2-1/2"	Turf Rotor		65.08	83.14	73.80	0.34 in/h
35L	Gnswold 2030	2-1/2"	Turf Rotor		67.90	87.88	82.00	0.34 in/h
34L	Gnswold 2030	2-1/2"	Turf Rotor		67.87	89.72	82.00	0.35 in/h
30L	Gnswold 2030	3"	Turf Rotor		66.86	88.51	82.00	0.32 in/h
29L	Gnswold 2030	3"	Turf Rotor		67.12	88.74	82.00	0.34 in/h
27L	Gnswold 2030	2-1/2"	Turf Rotor		67.51	85.63	73.80	0.56 in/h
20E	Gnswold 2030	3"	Turf Rotor		59.83	75.33	70.98	0.50 in/h
21E	Gnswold 2030	3"	Turf Rotor		65.49	84.25	90.20	0.33 in/h
22E	Gnswold 2030	1"	Turf Rotor		62.61	72.42	16.40	0.35 in/h
23E	Gnswold 2030	2"	Turf Rotor		65.38	80.46	73.80	0.35 in/h
25E	Gnswold 2030	1-1/2"	Turf Rotor		57.89	67.89	19.82	0.57 in/h
26E	Gnswold 2030	2"	Turf Rotor		61.38	72.07	31.50	0.59 in/h

MAXIMUM APPLIED WATER ALLOWANCE (MAWA)

MAWA = (Eto) (O.8) (LA) (0.62)
(53.3) (0.8) (339,815) (0.62)

TOTAL MAXIMUM APPLIED WATER ALLOWANCE (MAWA): 8,983,621 Gallons Per Year

ESTIMATED TOTAL WATER USE (ETWU)

ETWU = (Eto) (FF) (HA) (0.62)
(IE)

WATER USE ZONES:

SHRUB/TREE/GROUNDCOVER

PLANTING AREAS

(Low water use) (53.3) (.30) (39,328) (.62)
(.85) = 458,634 Gallons Per Year

HYDROSEEDED LAWN AREAS

(High water use) (53.3) (.85) (236,897) (.62)
(.85) = 7,828,634 Gallons Per Year

TOTAL ESTIMATED WATER USE (ETWU): 8,287,192 Gallons Per Year

SUMMARY:

(ETWU): 8,287,192 Gallons Per Year IS LESS THAN (MAWA): 8,983,621 Gallons Per Year

Calculations based on California Irrigation Management Information System (CIMIS) Reference Evapotranspiration (Eto) Zones Map 1999 and Department of Water Resources (DWR) The Landscape Coefficient Method and WUCOLS III (Water Use Classifications of Landscape Species) guide.

- Eto = Reference evapotranspiration (inches/year)
- O.8 = ET adjustment factor
- LA = Landscape area (square feet)
- O.62 = Conversion factor (to gallons per square foot)
- FF = Plant Factor (0.3 Low, 0.60 Medium, 0.70* High plant water usage)
- HA = Hydrozone Area (square feet)
- IE = Irrigation Efficiency (% of total landscape irrigation with drip: 0-25%=0.71, 26-50%=0.75, 51-75%=0.80, 76-100%=0.85)

Zone 12 on the CIMIS Map
53.3 inches per year
*Use of drought tolerant turfgrass

WATERING SCHEDULE - ESTABLISHMENT PERIOD (May-September)

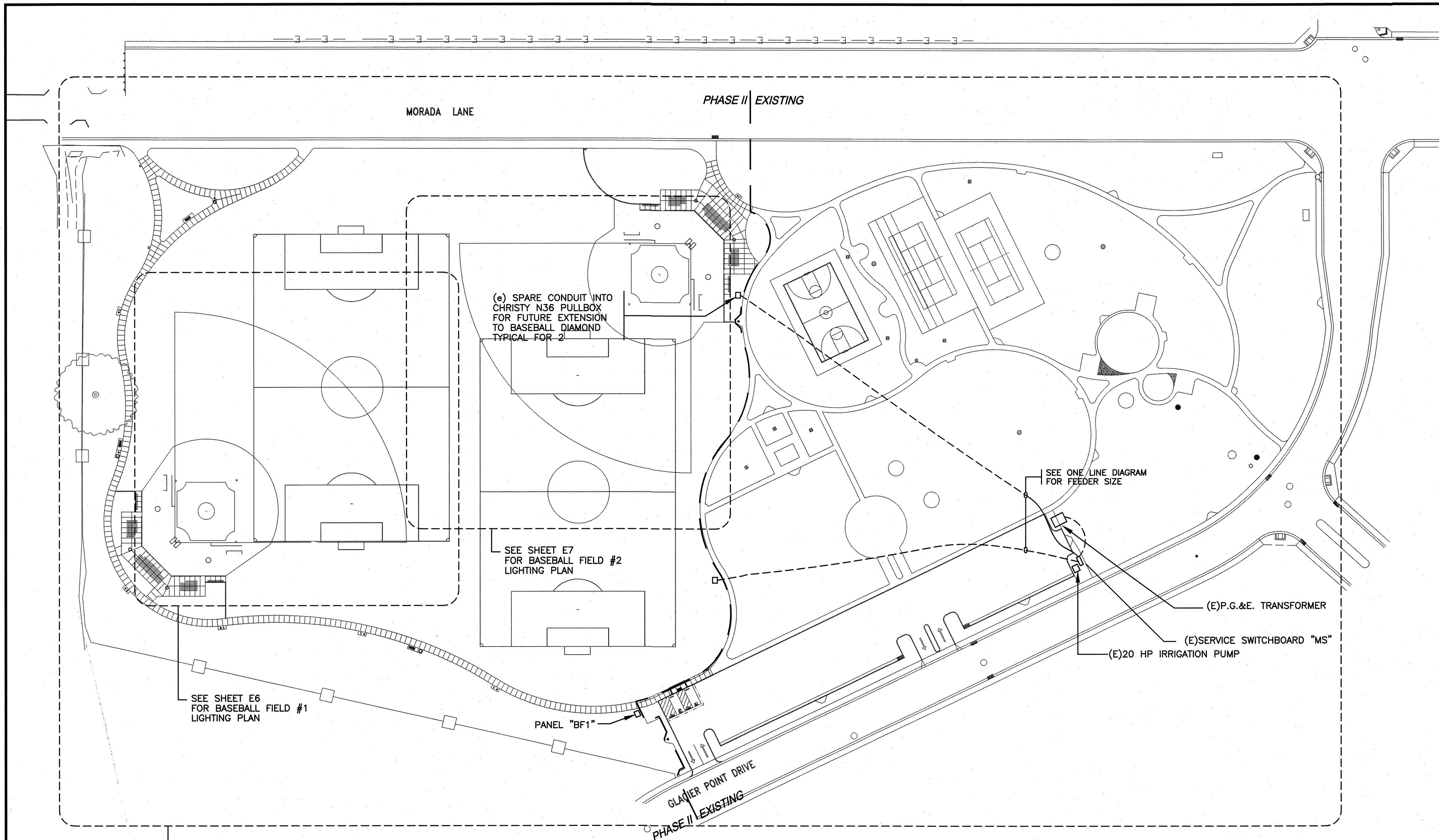
NUMBER	MODEL	TYPE	PRECIP	SUN	MON	TUE	WED	THU	FRI	SAT	IN/AWEEK	MIN/AWEEK	GAL/AWEEK	GAL/DAY
44D	Netafim LFC210075-HF	Area for Dnpline	0.23 in/h	85 min	85 min	85 min	85 min	85 min	85 min	85 min	2.28	595	4,970	710.1
41D	Netafim LFC210075-HF	Area for Dnpline	0.23 in/h	85 min	85 min	85 min	85 min	85 min	85 min	85 min	2.28	595	5,039	719.9
45D	Netafim LFC210075-HF	Area for Dnpline	0.23 in/h	85 min	85 min	85 min	85 min	85 min	85 min	85 min	2.28	595	8,440	1,206
46D	Netafim LFC210075-HF	Area for Dnpline	0.23 in/h	85 min	85 min	85 min	85 min	85 min	85 min	85 min	2.28	595	10,466	1,495
47D	Netafim LFC210075-HF	Area for Dnpline	0.23 in/h	85 min	85 min	85 min	85 min	85 min	85 min	85 min	2.28	595	17,224	2,461
38T	Netafim LFC210075-HF	Area for Dnpline	0.23 in/h	85 min	85 min	85 min	85 min	85 min	85 min	85 min	2.28	595	3,526	503.8
39T	Netafim LVC210075-LF	Area for Dnpline	0.23 in/h	85 min	85 min	85 min	85 min	85 min	85 min	85 min	2.28	595	2,042	291.7
40T	Netafim LVC210075-LF	Area for Dnpline	0.23 in/h	85 min	85 min	85 min	85 min	85 min	85 min	85 min	2.28	595	1,485	212.1
43T	Netafim LFC210075-HF	Area for Dnpline	0.23 in/h	85 min	85 min	85 min	85 min	85 min	85 min	85 min	2.28	595	3,712	530.3
42T	Netafim LFC210075-HF	Area for Dnpline	0.23 in/h	85 min	85 min	85 min	85 min	85 min	85 min	85 min	2.28	595	2,970	424.2
28L	Gnswold 2030	Turf Rotor	0.51 in/h	39 min	39 min	39 min	39 min	39 min	39 min	39 min	2.28	269	25,983	3,712
31L	Gnswold 2030	Turf Rotor	0.53 in/h	37 min	37 min	37 min	37 min	37 min	37 min	37 min	2.28	259	17,234	2,462
37L	Gnswold 2030	Turf Rotor	0.50 in/h	40 min	40 min	40 min	40 min	40 min	40 min	40 min	2.28	274	22,827	3,261
32L	Gnswold 2030	Turf Rotor	0.59 in/h	34 min	34 min	34 min	34 min	34 min	34 min	34 min	2.28	232	4,588	656.9
33L	Gnswold 2030	Turf Rotor	0.66 in/h	30 min	30 min	30 min	30 min	30 min	30 min	30 min	2.28	208	7,186	1,027
36L	Gnswold 2030	Turf Rotor	0.34 in/h	58 min	58 min	58 min	58 min	58 min	58 min	58 min	2.28	403	29,741	4,249
35L	Gnswold 2030	Turf Rotor	0.34 in/h	58 min	58 min	58 min	58 min	58 min	58 min	58 min	2.28	403	33,046	4,721
34L	Gnswold 2030	Turf Rotor	0.35 in/h	56 min	56 min	56 min	56 min	56 min	56 min	56 min	2.28	391	32,062	4,580
30L	Gnswold 2030	Turf Rotor	0.32 in/h	62 min	62 min	62 min	62 min	62 min	62 min	62 min	2.28	428	35,096	5,014
29L	Gnswold 2030	Turf Rotor	0.34 in/h	58 min	58 min	58 min	58 min	58 min	58 min	58 min	2.28	403	33,046	4,721
27L	Gnswold 2030	Turf Rotor	0.36 in/h	55 min	55 min	55 min	55 min	55 min	55 min	55 min	2.28	380	28,044	4,006
20E	Gnswold 2030	Turf Rotor	0.50 in/h	40 min	40 min	40 min	40 min	40 min	40 min	40 min	2.28	274	19,449	2,778
21E	Gnswold 2030	Turf Rotor	0.33 in/h	60 min	60 min	60 min	60 min	60 min	60 min	60 min	2.28	415	37,433	5,348
22E	Gnswold 2030	Turf Rotor	0.35 in/h	56 min	56 min	56 min	56 min	56 min	56 min	56 min	2.28	391	6,412	916.1
23E	Gnswold 2030	Turf Rotor	0.35 in/h	56 min	56 min	56 min	56 min	56 min	56 min	56 min	2.28	391	28,856	4,122
25E	Gnswold 2030	Turf Rotor	0.57 in/h	35 min	35 min	35 min	35 min	35 min	35 min	35 min	2.28	240	4,757	679.5
26E	Gnswold 2030	Turf Rotor	0.59 in/h	34 min	34 min	34 min	34 min	34 min	34 min	34 min	2.28	232	7,308	1,044
TOTALS:				1,658	1,658	1,658	1,658	1,658	1,658	1,658		11,543	432,951	61,850

WATERING SCHEDULE - ESTABLISHMENT PERIOD (October-April)

NUMBER	MODEL	TYPE	PRECIP	SUN	MON	TUE	WED	THU	FRI	SAT	IN/AWEEK	MIN/AWEEK	GAL/AWEEK	GAL/DAY
44D	Netafim LFC210075-HF	Area for Dnpline	0.23 in/h	31 min	31 min	31 min	31 min	31 min	31 min	31 min	0.83	217	1,813	259.0
41D	Netafim LFC210075-HF	Area for Dnpline	0.23 in/h	31 min	31 min	31 min	31 min	31 min	31 min	31 min	0.83	217	1,838	262.6
45D	Netafim LFC210075-HF	Area for Dnpline	0.23 in/h	31 min	31 min	31 min	31 min	31 min	31 min	31 min	0.83	217	3,078	439.7
46D	Netafim LFC210075-HF	Area for Dnpline	0.23 in/h	31 min	31 min	31 min	31 min	31 min	31 min	31 min	0.83	217	3,817	545.3
47D	Netafim LFC210075-HF	Area for Dnpline	0.23 in/h	31 min	31 min	31 min	31 min	31 min	31 min	31 min	0.83	217	6,282	897.4
38T	Netafim LFC210075-HF	Area for Dnpline	0.23 in/h	31 min	31 min	31 min	31 min	31 min	31 min	31 min	0.83	217	1,286	183.7
39T	Netafim LVC210075-LF	Area for Dnpline	0.23 in/h	31 min	31 min	31 min	31 min	31 min	31 min	31 min	0.83	217	744.6	106.4
40T	Netafim LVC210075-LF	Area for Dnpline	0.23 in/h	31 min	31 min	31 min	31 min	31 min	31 min	31 min	0.83	217	541.5	77.4
43T	Netafim LFC210075-HF	Area for Dnpline	0.23 in/h	31 min	31 min	31 min	31 min	31 min	31 min	31 min	0.83	217	1,354	193.4
42T	Netafim LFC210075-HF	Area for Dnpline	0.23 in/h	31 min	31 min	31 min	31 min	31 min	31 min	31 min	0.83	217	1,083	154.7
28L	Gnswold 2030	Turf Rotor	0.51 in/h	14 min	14 min	14 min	14 min	14 min	14 min	14 min	0.83	98	9,466	1,352
31L	Gnswold 2030	Turf Rotor	0.59 in/h	14 min	14 min	14 min	14 min	14 min	14 min	14 min	0.83	94	6,255	895.5
37L	Gnswold 2030	Turf Rotor	0.50 in/h	15 min	15 min	15 min	15 min	15 min	15 min	15 min	0.83	100	8,331	1,190
32L	Gnswold 2030	Turf Rotor	0.59 in/h	13 min	13 min	13 min	13 min	13 min	13 min	13 min	0.83	85	1,685	240.7
33L	Gnswold 2030	Turf Rotor	0.66 in/h	11 min	11 min	11 min	11 min	11 min	11 min	11 min	0.83	76	2,626	375.1
36L	Gnswold 2030	Turf Rotor	0.34 in/h	21 min	21 min	21 min	21 min	21 min	21 min	21 min	0.83	147	10,849	1,550
35L	Gnswold 2030	Turf Rotor	0.34 in/h	21 min	21 min	21 min	21 min	21 min	21 min	21 min	0.83	147	12,054	1,722
34L	Gnswold 2030	Turf Rotor	0.32 in/h	23 min	23 min	23 min	23 min	23 min	23 min	23 min	0.83	143	11,726	1,675
30L	Gnswold 2030	Turf Rotor	0.34 in/h	21 min	21 min	21 min	21 min	21 min	21 min	21 min	0.83	147	12,792	1,827
29L	Gnswold 2030	Turf Rotor	0.36 in/h	20 min	20 min	20 min	20 min	20 min	20 min	20 min	0.83	139	10,256	1,465
27L	Gnswold 2030	Turf Rotor	0.50 in/h	15 min	15 min	15 min	15 min	15 min	15 min	15 min	0.83	100	7,098	1,014
20E	Gnswold 2030	Turf Rotor	0.33 in/h	22 min	22 min	22 min	22 min	22 min	22 min	22 min	0.83	151	13,620	1,946
21E	Gnswold 2030	Turf Rotor	0.35 in/h	21 min	21 min	21 min	21 min	21 min	21 min	21 min	0.83	143	2,845	395.0
22E	Gnswold 2030	Turf Rotor	0.35 in/h	21 min	21 min	21 min	21 min	21 min	21 min	21 min	0.83	143	10,553	1,508
23E	Gnswold 2030	Turf Rotor	0.57 in/h	13 min	13 min	13 min	13 min	13 min	13 min	13 min	0.83	88	1,744	249.2
25E	Gnswold 2030	Turf Rotor	0.59 in/h	13 min	13 min	13 min	13 min	13 min	13 min	13 min	0.83	85	2,678	382.5
26E	Gnswold 2030	Turf Rotor	0.59 in/h	13 min	13 min	13 min	13 min	13 min	13 min	13 min	0.83	85	2,678	382.5
TOTALS:				609	609	609	609	609	609	609		4,212	157,970	22,567

WATERING SCHEDULE - ESTABLISHED (May - September)

NUMBER	MODEL	TYPE	PRECIP	SUN	MON	TUE	WED	THU	FRI	SAT	IN/AWEEK	MIN/AWEEK	GAL/AWEEK	GAL/DAY
44D	Netafim LFC210075-HF	Area for Dnpline												

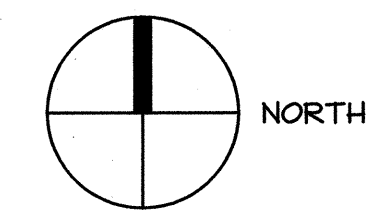


ELECTRICAL NOTES

- GENERAL NOTES:**
- ELECTRICAL INSTALLATION SHALL COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, INCLUDING THE FOLLOWING:
TITLE 24, CCR, PART 2, 2010 CBC
TITLE 24, CCR, PART 3, 2010 CEC
TITLE 24, CCR, PART 4, 2010 CMC
TITLE 24, CCR, PART 9, 2010 CFC
ALL APPLICABLE LOCAL CODES.
 - ELECTRICAL CONTRACTOR SHALL VERIFY POWER SERVICE AT SITE PRIOR TO BIDDING. SERVICE TO CONFORM TO UTILITY COMPANY REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL ARRANGE FOR SERVICE INSTALLATION PER UTILITY COMPANY REQUIREMENTS AND PAY ALL CUSTOMER CHARGED SERVICES COSTS. LOCATIONS SHOWN ARE APPROXIMATE ONLY. PROVIDE ALL CONDUITS, CABLES, ETC. AS REQUIRED.
 - ELECTRICAL CONTRACTOR SHALL PROCURE AND PAY FOR ALL LICENSES, ETC. REQUIRED TO CARRY ON AND COMPLETE THE WORK. ADDITIONALLY, HE/SHE SHALL OBTAIN ALL PERMITS NECESSARY.
 - PROVIDE ALL LABOR, MATERIALS, TOOLS, PLANT, EQUIPMENT, TRANSPORTATION AND PERFORM ALL OPERATIONS NECESSARY FOR PROPER EXECUTION AND COMPLETION OF ALL "ELECTRICAL WORK" COVERED UNDER THIS PROJECT.
 - ALL ELECTRICAL MATERIALS SHALL BE NEW AND LISTED WITH THE UNDERWRITERS' LABORATORIES, INC. SHALL MEET THEIR REQUIREMENTS AND SHALL BEAR THEIR LABEL WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THAT AGENCY.
 - ELECTRICAL DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH THE SIZE AND LOCATIONS OF EQUIPMENT ARE SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION AT THE SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT AND INSTALLING HIS WORK TO AVOID INTERFERENCE WITH OTHER TRADES.
 - CONDUCTORS SHALL BE 600V COPPER CONDUCTORS TYPE THWN UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
 - WORK SHOWN ON THE DRAWINGS TO BE INSTALLED UNDERGROUND SHALL BE INSTALLED AT LEAST 24" BELOW GRADE. BACKFILL IN 6" THICK, PROPERLY MOISTENED LAYERS, SOLIDLY PACKED AND IRON TAMPED TO A DENSITY NOT LESS THAN THAT OF ADJACENT, UNDISTURBED EARTH. RESTORE SURFACES, ROADWAYS, WALKS, CURBS, WALLS, EXISTING UNDERGROUND INSTALLATIONS TO ORIGINAL CONDITION IN AN ACCEPTABLE MANNER.
 - DETERMINE EXACT ROUTE OF UNDERGROUND CONDUIT WITH LANDSCAPE ARCHITECT IN FIELD PRIOR TO ANY TRENCHING. CONTRACTOR SHALL VERIFY ACTUAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO TRENCHING, ETC.
- PATHWAY AND PARKING LOT LIGHTING NOTES:**
- ALL WALKWAY LIGHTING AND PARKING LOT LIGHTING SHALL BE UNMETERED, POWERED FROM UTILITY COMPANY POWER SOURCE SUITABLE FOR STREET LIGHTING.
 - ALL POWER SUPPLY TO LUMINAIRES SHALL HAVE APPROPRIATE IN LINE FUSES INSTALLED IN PROPER WEATHERPROOF FUSE HOLDERS LOCATED IN LUMINAIRE HAND HOLES.
 - STRICTLY FOLLOW THE COLOR CODE FOR CABLES FOR PHASES PER NEC. THE SAME PHASE SHALL BE IDENTIFIED BY THE SAME PHASE COLOR THROUGHOUT THE INSTALLATION.
 - PROVIDE A 5/8"x8' COPPER CLAD GROUND ROD IN EACH UNDERGROUND PULLBOX FOR PATHWAY LIGHTING SYSTEM. GROUND POLE ASSEMBLY AND GROUND CIRCUIT CONDUCTOR TO THE GROUND ROD USING #8 COPPER CONDUCTOR.
 - MINIMUM UNDERGROUND CONDUIT SIZE SHALL BE 1-1/2" UNLESS OTHERWISE NOTED.
 - MINIMUM CONDUCTOR SIZE FOR PATHWAY, PARKING LOT LIGHTING SHALL BE #8 INCLUDING GROUND.

OVERALL PARK ELECTRICAL PLAN

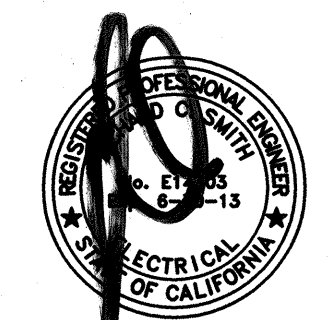
SCALE 1"=60'-0"



MATT EQUINOA PARK PHASE II
OVERALL PARK ELECTRICAL

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

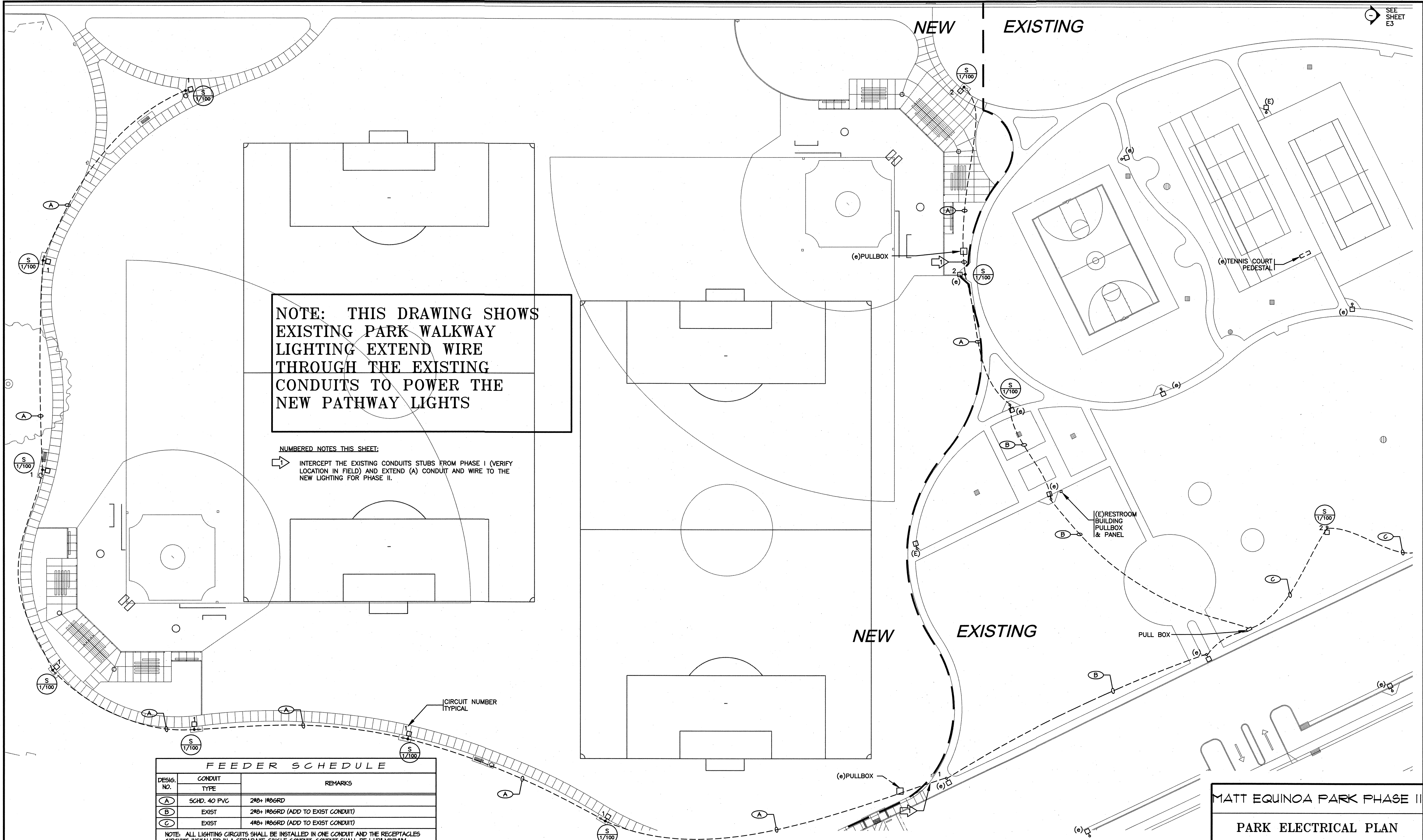
SCALE AS SHOWN	APPROVED BY: 7/12/12	SHEET NO. E1
DESIGNED BY RCS	DATE	18 OF 28 SHEETS
DRAWN BY BA	CITY LANDSCAPE ARCHITECT STOCKTON, CALIFORNIA	
CHECKED BY	PROJECT NO.	
RECORD DWGS.		



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Revision No.	Description	Date	By	Appr. By



NOTE: THIS DRAWING SHOWS EXISTING PARK WALKWAY LIGHTING EXTEND WIRE THROUGH THE EXISTING CONDUITS TO POWER THE NEW PATHWAY LIGHTS

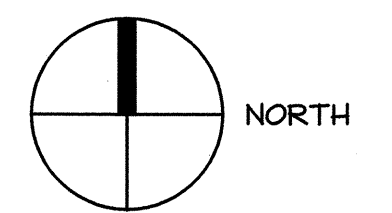
NUMBERED NOTES THIS SHEET:
 1 INTERCEPT THE EXISTING CONDUITS STUBS FROM PHASE I (VERIFY LOCATION IN FIELD) AND EXTEND (A) CONDUIT AND WIRE TO THE NEW LIGHTING FOR PHASE II.

FEEDER SCHEDULE		
DESIG. NO.	CONDUIT TYPE	REMARKS
(A)	SCHD. 40 PVC	2#0+ 1#0GRD
(B)	EXIST	2#0+ 1#0GRD (ADD TO EXIST CONDUIT)
(C)	EXIST	4#0+ 1#0GRD (ADD TO EXIST CONDUIT)

NOTE: ALL LIGHTING CIRCUITS SHALL BE INSTALLED IN ONE CONDUIT AND THE RECEPTACLES CIRCUITS INSTALLED IN A SEPARATE, SINGLE CONDUIT. CONDUIT SHALL BE 1-1/2" MINIMUM.

PARK PATHWAY LIGHTING PLAN

SCALE 1"=30'-0"



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Revision No.	Description	Date	By	Appr. By

**MATT EQUINOA PARK PHASE II
 PARK ELECTRICAL PLAN**

DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		APPROVED BY: 7/12/12	SHEET NO. E2
SCALE AS SHOWN	DESIGNED BY RCS	DATE	19 OF 28 SHEETS
DRAWN BY BA	CHECKED BY	CITY LANDSCAPE ARCHITECT STOCKTON, CALIFORNIA	PROJECT NO.
RECORD DWGS.			



MORADA LANE

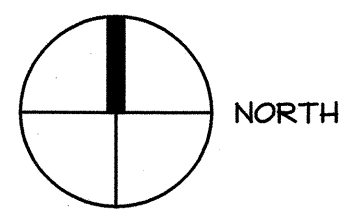
PHASE II EXISTING



STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	1.0 fc	4.2 fc	0.1 fc	42.0:1	10.0:1
Calc Zone #2	+	0.8 fc	2.7 fc	0.1 fc	27.0:1	8.0:1

PHOTOMETRIC STUDY

SCALE 1"=40'-0"



GLACIER POINT DRIVE
PHASE II EXISTING

MATT EQUINOA PARK PHASE II
PHOTOMETRIC STUDY

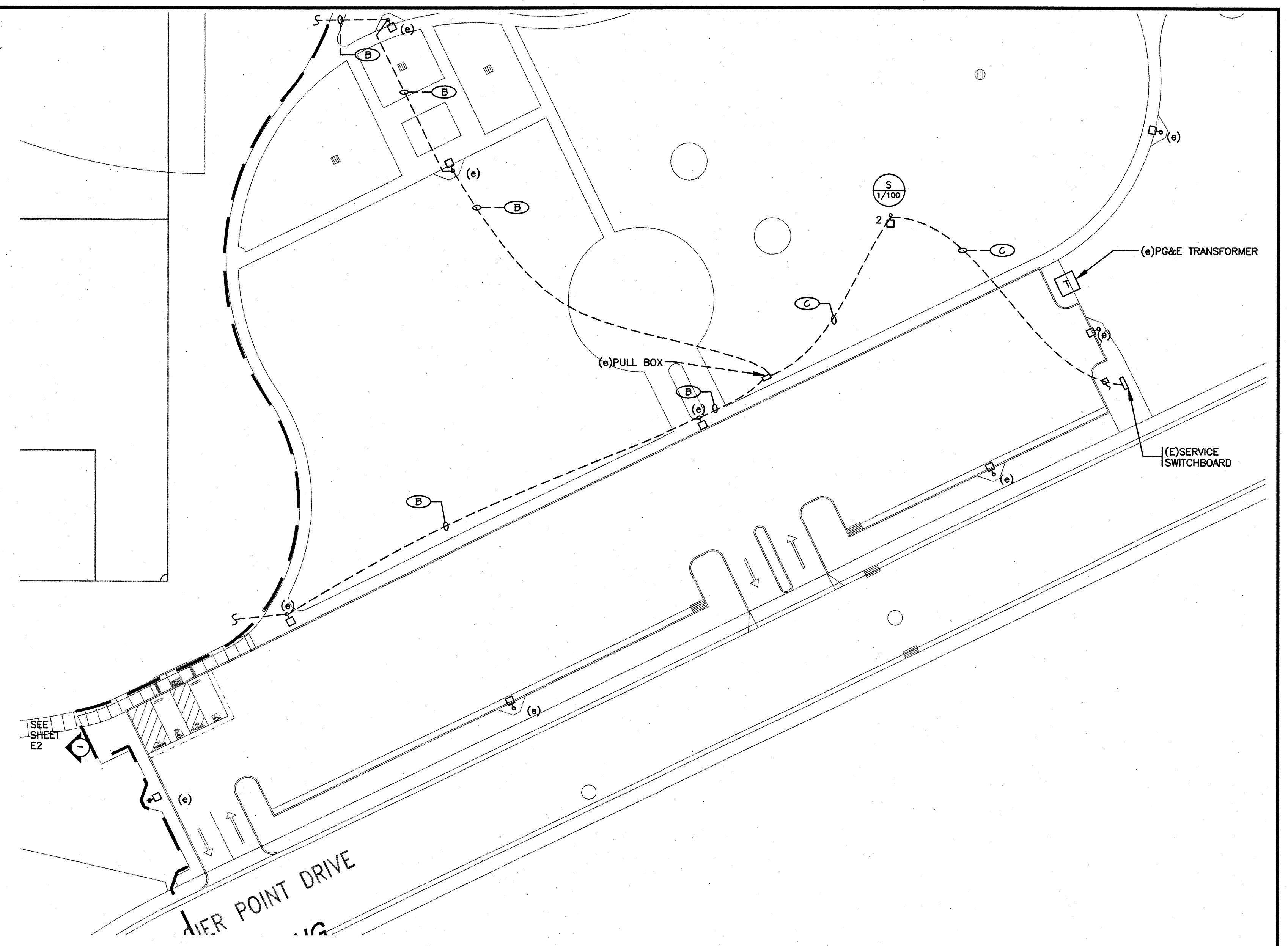
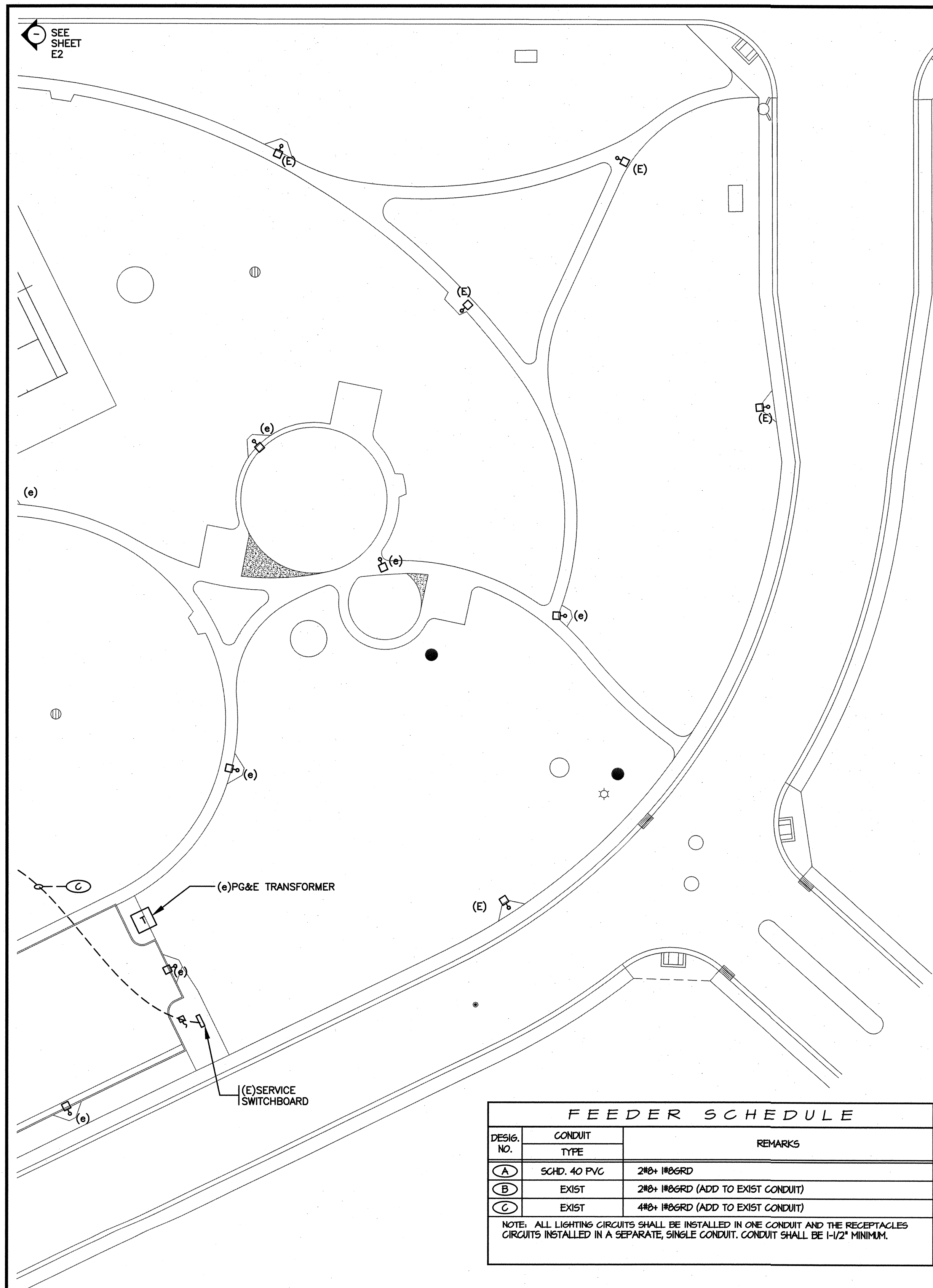


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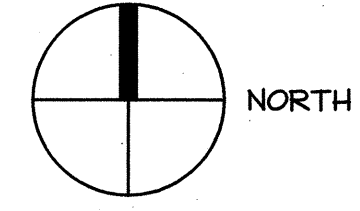
Revision No.	Description	Date	By	Appr. By

DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		APPROVED BY: <u>7/12/12</u> DATE	SHEET NO. E2A 20 OF 28 SHEETS
SCALE AS SHOWN	DESIGNED BY RCS	CHECKED BY BA	PROJECT NO.
DRAWN BY BA	RECORD DWGS.	CITY LANDSCAPE ARCHITECT STOCKTON, CALIFORNIA	



PARKING LOT LIGHTING PLAN

SCALE 1"=30'-0"



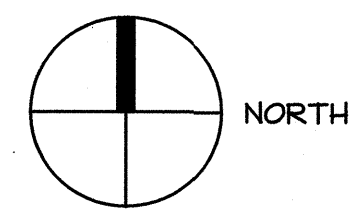
FEEDER SCHEDULE		
DESIG. NO.	CONDUIT TYPE	REMARKS
(A)	SCHD. 40 PVC	2#4" 1#0GRD
(B)	EXIST	2#4" 1#0GRD (ADD TO EXIST CONDUIT)
(C)	EXIST	4#4" 1#0GRD (ADD TO EXIST CONDUIT)

NOTE: ALL LIGHTING CIRCUITS SHALL BE INSTALLED IN ONE CONDUIT AND THE RECEPTACLES CIRCUITS INSTALLED IN A SEPARATE, SINGLE CONDUIT. CONDUIT SHALL BE 1-1/2" MINIMUM.

NOTE: THIS DRAWING SHOWS EXISTING PARK WALKWAY LIGHTING EXTEND WIRE THROUGH THE EXISTING CONDUITS TO POWER THE NEW PATHWAY LIGHTS

PARK PATHWAY LIGHTING PLAN

SCALE 1"=30'-0"



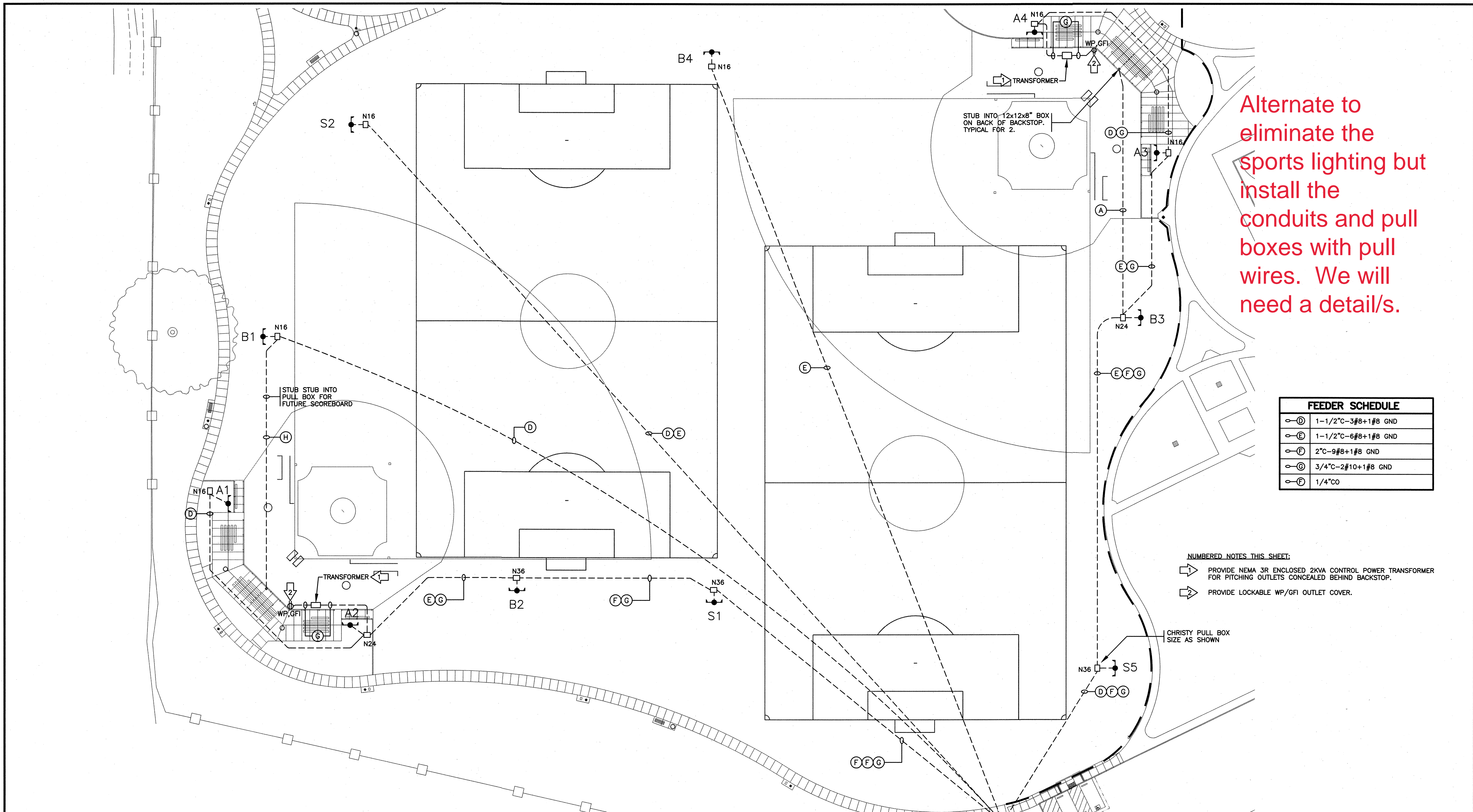
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MATT EQUINOA PARK PHASE II
PARK ELECTRICAL PLAN

DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		APPROVED BY: <i>[Signature]</i> DATE: 7/12/12	SHEET NO. E3 21 OF 28 SHEETS
SCALE: AS SHOWN	DESIGNED BY: RCS	CITY LANDSCAPE ARCHITECT STOCKTON, CALIFORNIA	PROJECT NO.
DRAWN BY: BA	CHECKED BY:	RECORD DWGS.	



Alternate to eliminate the sports lighting but install the conduits and pull boxes with pull wires. We will need a detail/s.

FEEDER SCHEDULE	
⊖D	1-1/2" C-3#8+1#8 GND
⊖E	1-1/2" C-6#8+1#8 GND
⊖F	2" C-9#8+1#8 GND
⊖G	3/4" C-2#10+1#8 GND
⊖	1/4" CO

- NUMBERED NOTES THIS SHEET:
- 1 PROVIDE NEMA 3R ENCLOSED 2KVA CONTROL POWER TRANSFORMER FOR PITCHING OUTLETS CONCEALED BEHIND BACKSTOP.
 - 2 PROVIDE LOCKABLE WP/GFI OUTLET COVER.

SPORTS FIELD ELECTRICAL PLAN

SCALE 1"=30'-0"



4'x6' VAULT
PANEL BF1
VAULT AND PANEL TO BE SQUARE WITH WALKWAY

CHRISTY PULL BOX
SIZE AS SHOWN

MATT EQUINOA PARK PHASE II
SPORTS FIELD ELECTRICAL



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CITY OF STOCKTON, CALIFORNIA

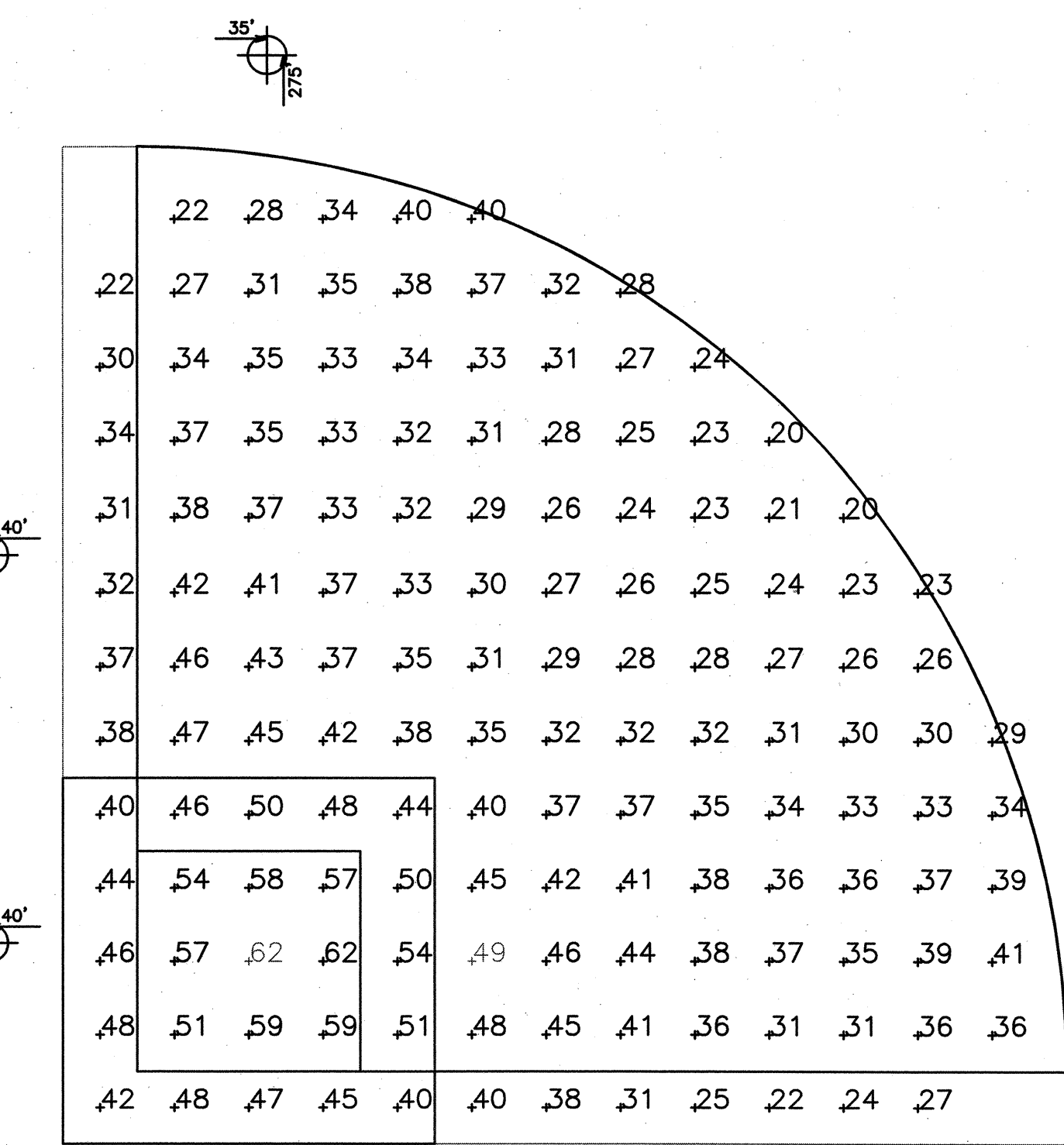
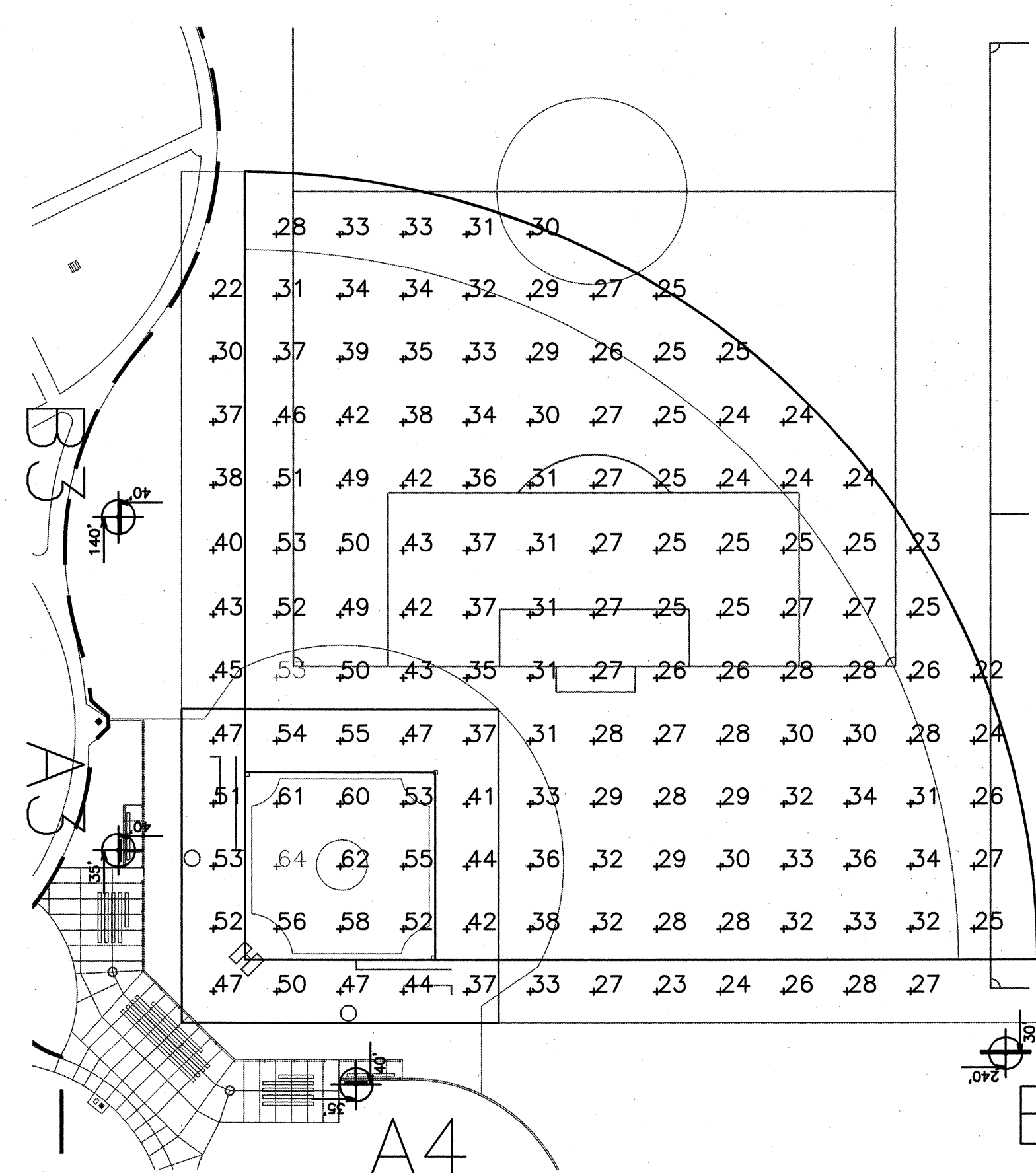
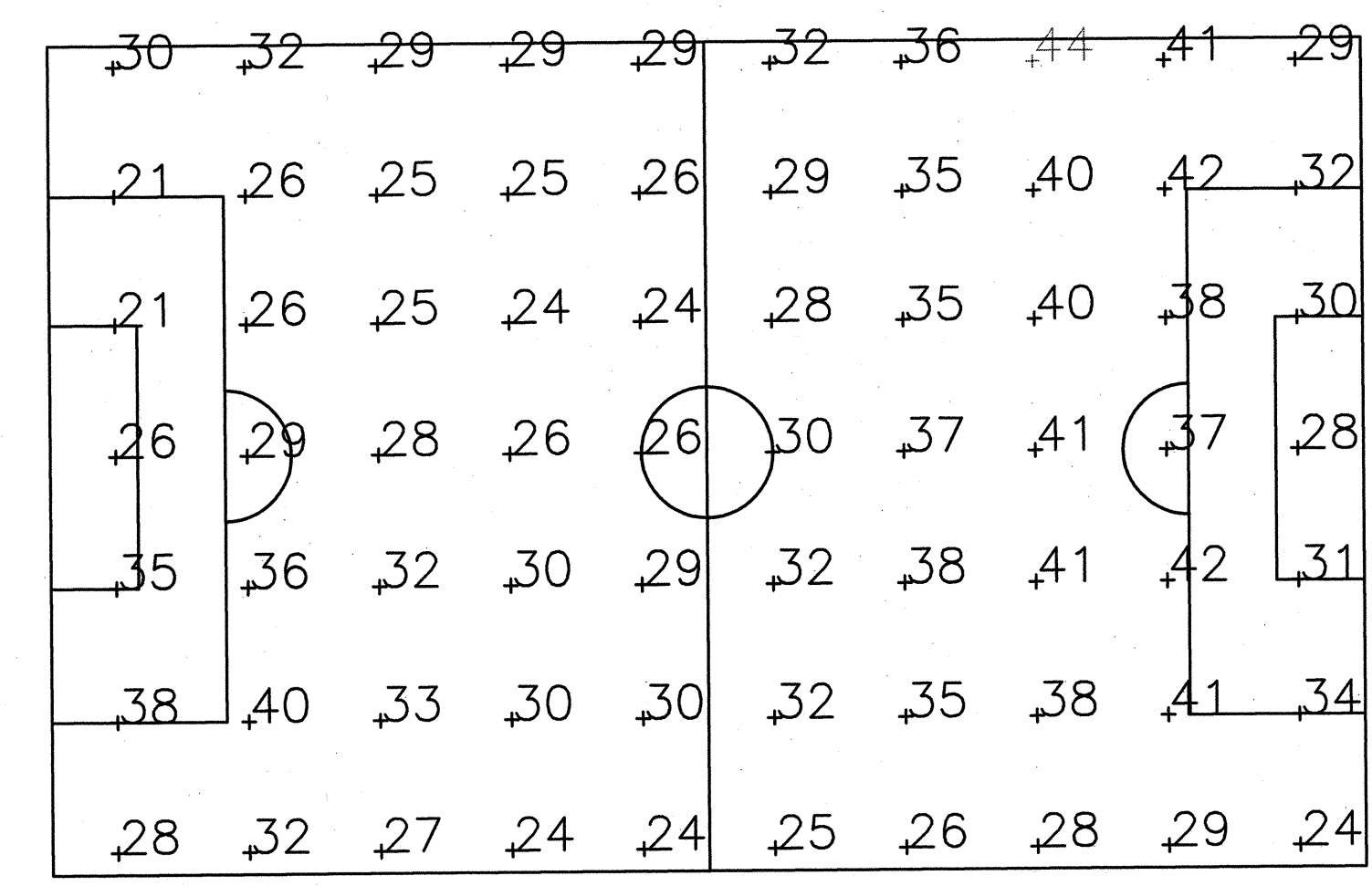
SCALE AS SHOWN
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DRAWN BY BA
CHECKED BY
RECORD DWGS.

APPROVED BY: 7/12/12
DATE

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STOCKTON, CALIFORNIA

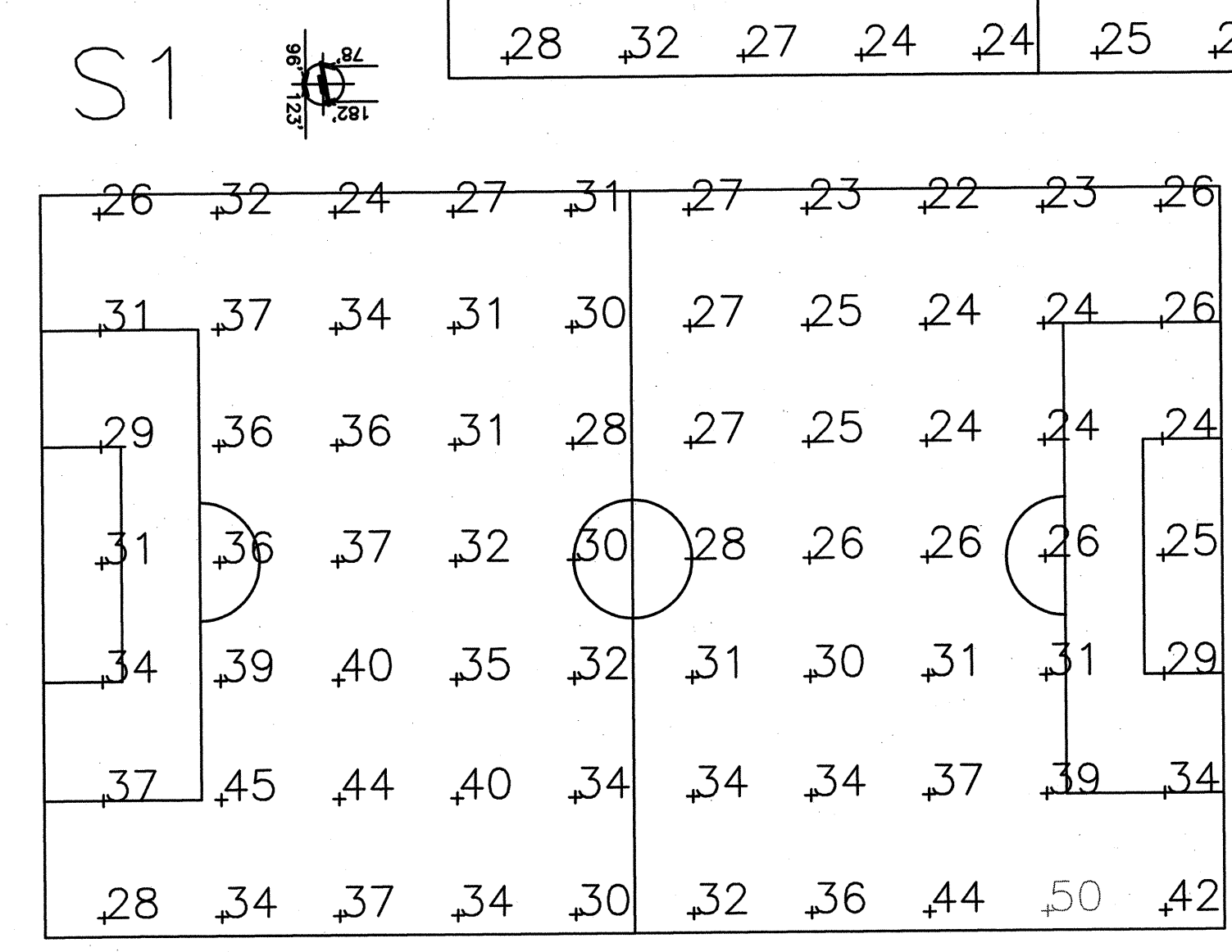
SHEET NO. E4
22 OF 28 SHEETS
PROJECT NO.

A1 B1
A2 S2



EAST BASEBALL FIELD

WEST BASEBALL FIELD



SOCCER LIGHTING PLAN



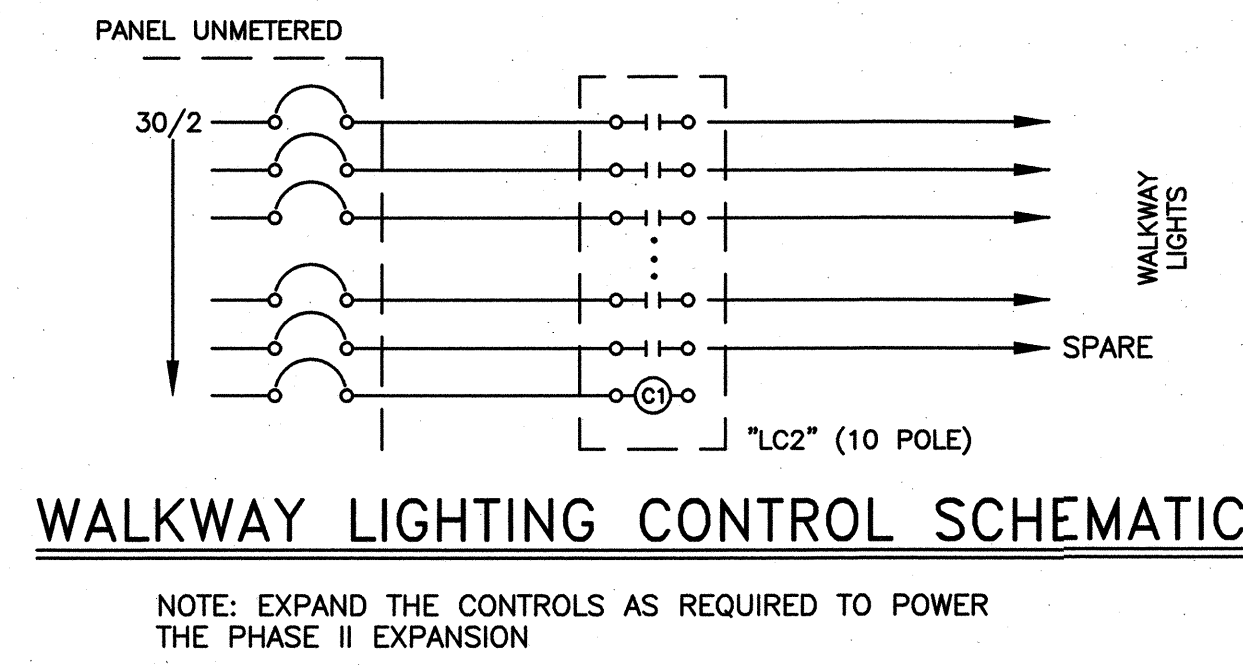
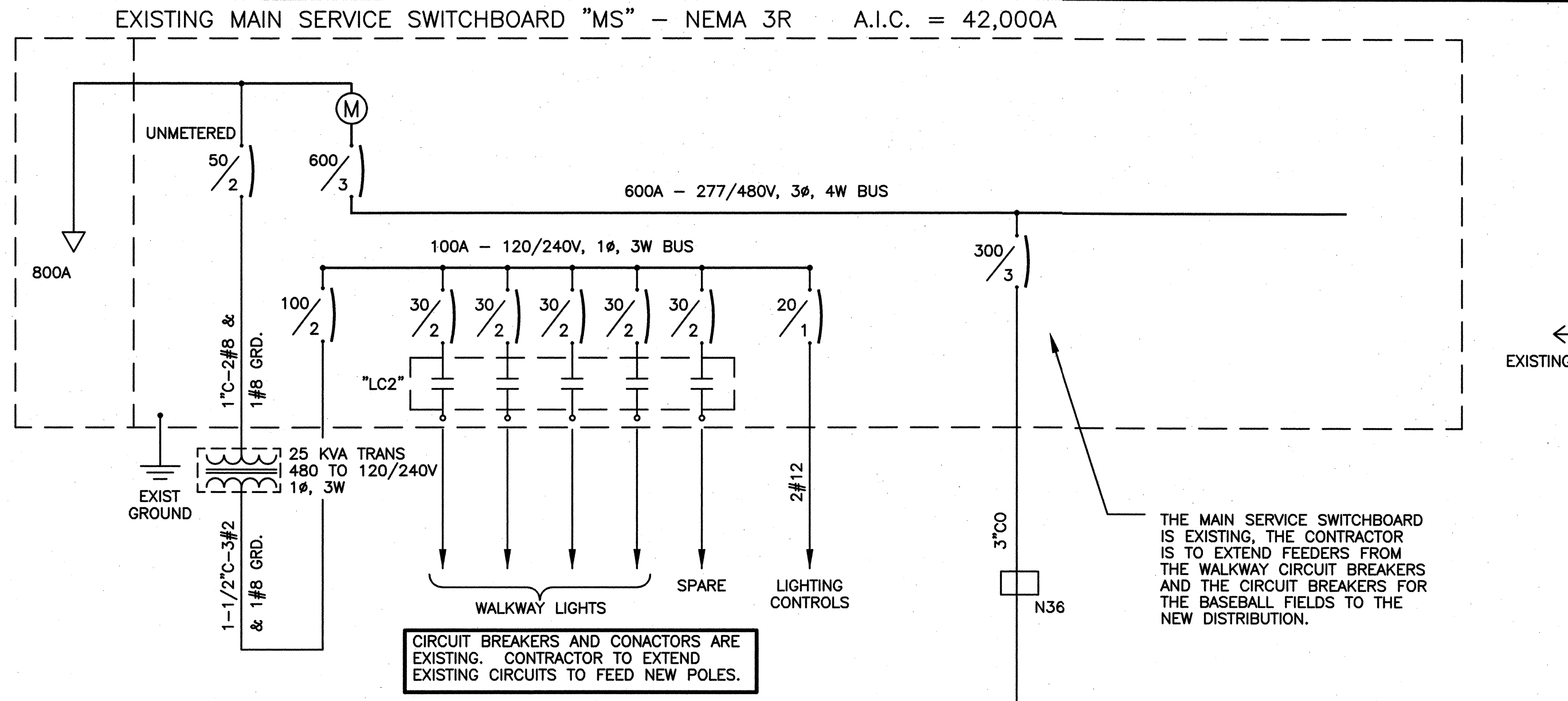
HCS ENGINEERING, INC.
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MATT EQUINOA PARK PHASE II
SPORTS FIELD PHOTOMETRIC

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CITY OF STOCKTON, CALIFORNIA
SCALE AS SHOWN
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APPROVED BY: 7/12/12
DATE
SHEET NO. E5
23 OF 28 SHEETS
CITY LANDSCAPE ARCHITECT
STOCKTON, CALIFORNIA
PROJECT NO.



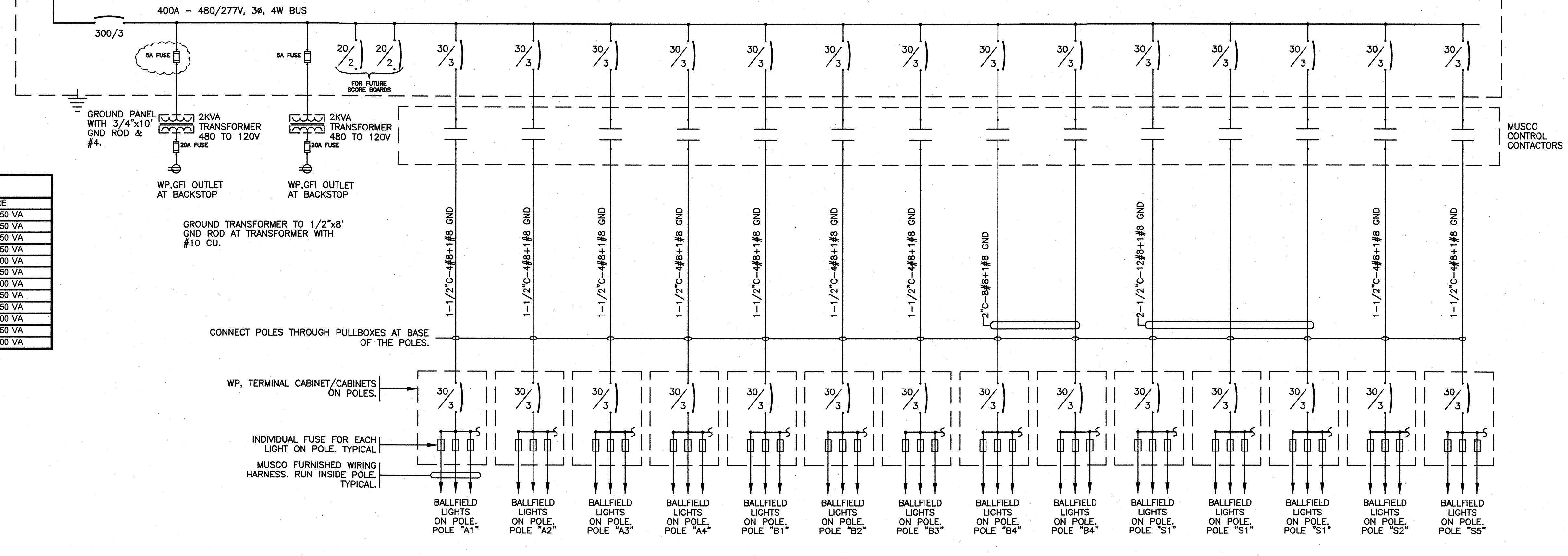
WALKWAY LIGHTING CONTROL WIRING DIAGRAM

- NOTES: LIGHTING CONTROL SYSTEM
1. PROVIDE AN EXTERIOR LIGHTING CONTROL SYSTEM FOR PARK PATHWAY LIGHTING AND SECURITY LIGHTING.
 2. MOUNT ALL CONTROL COMPONENTS, CONTACTORS, ETC., IN MAIN SERVICE SWITCHBOARD "MS".
 3. PROVIDE LABELS FOR ALL CIRCUIT AND CONTROL COMPONENTS.
- LC1 - 30A, ELECTRICALLY HELD LIGHTING CONTACTOR. POLES AS SHOWN. (EXISTING TO BE EXPANDED UNDER THIS PROJECT).
 PC - PHOTOCCELL, ADJUSTABLE. (EXISTING TO BE EXPANDED UNDER THIS PROJECT).

THE MAIN SERVICE SWITCHBOARD IS EXISTING. THE CONTRACTOR IS TO EXTEND FEEDERS FROM THE WALKWAY CIRCUIT BREAKERS AND THE CIRCUIT BREAKERS FOR THE BASEBALL FIELDS TO THE NEW DISTRIBUTION.

CIRCUIT BREAKERS AND CONTACTORS ARE EXISTING. CONTRACTOR TO EXTEND EXISTING CIRCUITS TO FEED NEW POLES.

PANEL "BF1" - NEMA 3R (FREE STANDING TESCO LOW BAY STYLE POWER PANEL WITH RELAY CABINET, LOCKABLE)



BALL FIELD LIGHTING LOAD

FIXTURE	WATTS PER HEAD	#OF HEADS	LOAD PER FIXTURE
A1	1650	3	4950 VA
A2	1650	3	4950 VA
A3	1650	3	4950 VA
A4	1650	3	4950 VA
B1	1650	6	9900 VA
B2	1650	3	4950 VA
B3	1650	8	13200 VA
B4	1650	13	21450 VA
S1	1650	17	28050 VA
S2	1650	6	9900 VA
S3	1650	7	11550 VA
TOTAL LIGHTING LOAD			118800 VA

PANEL "BF1" LOAD

PANEL "BF1" LOAD CALCULATIONS	
TOTAL LIGHTING LOAD	118800 VA
TOTAL POWER LOAD	4000 VA
25% OF LIGHTING LOAD	29700 VA
TOTAL LOAD	152500 VA
TOTAL AMPS AT 480V	183.5138 VA

WALKWAY LIGHTING LOAD

WALKWAY LIGHTING PANEL	
EXISTING LOAD	2768 VA
ADDED LOAD	880 VA
25% LIGHTING LOAD	912 VA
TOTAL LOAD	4560 VA
TOTAL AMPS AT 240V	19.00 A

ONE LINE DIAGRAM
NTS

MATT EQUINOA PARK PHASE II
SWITCHBOARD DETAILS



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DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA			
SCALE	AS SHOWN	APPROVED BY:	7/12/12
DESIGNED BY	RCS	DATE	
DRAWN BY	BA		
CHECKED BY			
RECORD DWGS.			

CITY LANDSCAPE ARCHITECT
STOCKTON, CALIFORNIA



CONTROL SYSTEM SUMMARY

Project Number:	134373		
Project Name:	Stockton Multi Purpose		
Prepared By:	Eric Svenby		
Sales Rep:	Jasen Deniz	Date:	04/10/2008
Scan:	134373		
Service Location:	1 of 1		

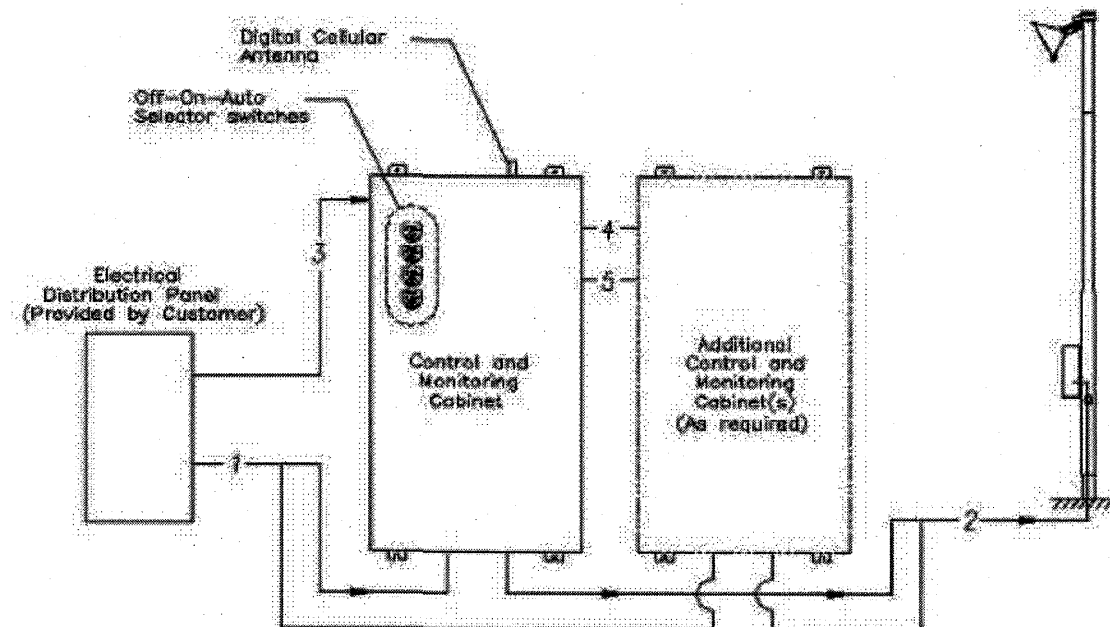
CONTROL SYSTEM TYPE: Control and Monitoring Typical

EQUIPMENT LISTING

DESCRIPTION	APPROXIMATE SIZE
1. CONTROL AND MONITORING CABINET	24 X 72
2. CONTROL AND MONITORING CABINET	24 X 48

TOTAL CONTACTORS:	QTY	SIZE
	14	30 AMP
TOTAL Off/On/Auto SWITCHES:	6	

Control and Monitoring Digital Typical Equipment Layout



Wiring Details						
WIRE	DESCRIPTION	VOLTAGE	# OF WIRES	TYP. SIZE	NOTES	SUPPLIER
1	POWER TO LIGHTING CONTRACTORS (LINE)	NOTE A	NOTE A	NOTE B	A thru E	CONTRACTOR
2	POWER FROM CONTACTORS TO POLES (LOAD)	NOTE A	NOTE A	NOTE B	A thru E	CONTRACTOR
3	CONTROL VOLTAGE (20 AMP)	120V (AC)	3	12	C,D,E	CONTRACTOR
4	CONTROL VOLTAGE HARNESSSES	120V (AC)	---	---	C,D,E	MUSCO
5	MONITORING MODULE COMMUNICATION CABLE	N/A	1	---	C,D,E	MUSCO

- Notes:
- A. Voltage and phasing per the notes on page 2.
 - B. Calculate per load, voltage drop.
 - C. For more information on equipment, see attached drawings.
 - D. Refer to installation instructions for details on equipment mounting and conduit entry points.
 - E. Power circuits (wires #1-4) must be run in separate conduit from non-power circuits (wire #5).

Service Notes:

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CONTROL SYSTEM SUMMARY

Project Number:	134373		
Project Name:	Stockton Multi Purpose		
Prepared By:	Eric Svenby		
Sales Rep:	Jasen Deniz	Date:	04/10/2008
Scan:	134373		
Service Location:	1 of 1		

CIRCUIT SUMMARY BY ZONE

POLE	CIRCUIT NAME	# OF FIXT	FULL LOAD AMPS	CONTACTOR SIZE (AMPS)	CONTACTOR ID	ZONE
B2	BB 1	3	7.4	30	C1	1
A1	BB1/SO1	3	7.4	30	C2	2
A2	BB1/SO1	3	7.4	30	C3	2
B1	BB1/SO1	6	14.8	30	C4	2
S1	BB1/SO1	8	22.2	30	C5	2
S2	BB1/SO1	6	14.8	30	C6	2
B4	SO1	6	14.8	30	C7	3
A3	BB2	3	7.4	30	C8	4
A4	BB2	3	7.4	30	C9	4
B3	BB2/SO2	8	22.2	30	C10	5
B4	BB2/SO2	7	18.5	30	C11	5
S1	BB2/SO2	5	14.8	30	C12	5
S5	BB2/SO2	7	18.5	30	C13	5
S1	SO2	4	11.1	30	C14	6

IMPORTANT NOTES:

- This design is based on 480 VOLTS 3 phase. If voltage is other, equipment costs may be affected. Contact your Musco sales representative.
- When 3 phase service is available, all 3 phases are to be run to each pole.
- One contactor is required for each pole. When a pole has multiple circuits, one contactor is required for each circuit.
- If the lighting system will be fed from more than one service location, additional equipment may be required.
- Entrance hub and locknut materials must be die-cast zinc, copper free die-cast aluminum or PVC and must meet NEMA 4 enclosure sealing requirements.
- A single 120V control circuit must be supplied to each control system.
- Size overcurrent devices using the full load amps column of the chart. Full load amps based on an assumed power factor of 0.9.

CONTROL POWER CONSUMPTION

120V SINGLE PHASE (SEE NOTE 6)	
VA LOADING OF MUSCO SUPPLIED EQUIPMENT	INRUSH: 1080.0
	SEALED: 205.0

SWITCHING SCHEDULE

Field Type	Zones	Customer Field Name
Baseball	1,2	Baseball 1
Soccer	2,3	Soccer 1
Baseball	4,5	Baseball 2
Soccer	5,6	Soccer 2

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PANEL SUMMARY

CABINET #	CONTROL MODULE LOCATION	CONT. ID	CIRCUIT DESCRIPTION	FULL LOAD AMPS	DISTRIBUTION PANEL ID BY OTHERS	CIRCUIT BREAKER POSITION BY OTHERS
1	1	C1	Pole B2	7.4		
1	1	C2	Pole A1	7.4		
1	1	C3	Pole A2	7.4		
1	1	C4	Pole B1	14.8		
1	1	C5	Pole S1	22.2		
1	1	C6	Pole S2	14.8		
1	1	C7	Pole B4	14.8		
1	1	C8	Pole A3	7.4		
1	1	C9	Pole A4	7.4		
1	1	C10	Pole B3	22.2		
1	1	C11	Pole B4	18.5		
1	1	C12	Pole S1	14.8		
2	1	C13	Pole S5	18.5		
2	1	C14	Pole S1	11.1		

ZONE SCHEDULE

ZONE	Selector Switch	ZONE DESCRIPTION	CIRCUIT DESCRIPTION	
			POLE ID	CONT ID
Zone 1	1	BB-1	B2	C1
Zone 2	2	BB1/SO1	A1	C2
			A2	C3
			B1	C4
			S1	C5
Zone 3	3	SO1	B4	C7
			A4	C8
Zone 4	4	BB2	A3	C9
			A4	C10
Zone 5	5	BB2/SO2	B3	C11
			B4	C12
			S1	C13
			S5	C14
Zone 6	6	SO2	S1	C14

MATT EQUINOA PARK PHASE II

CONTROLS

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

SCALE	AS SHOWN	APPROVED BY:	7/12/12	SHEET NO.	E7
DESIGNED BY	RC5	DATE		25 OF 28 SHEETS	
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CHECKED BY					
RECORD DWGS.					

CITY LANDSCAPE ARCHITECT
STOCKTON, CALIFORNIA

PROJECT NO.

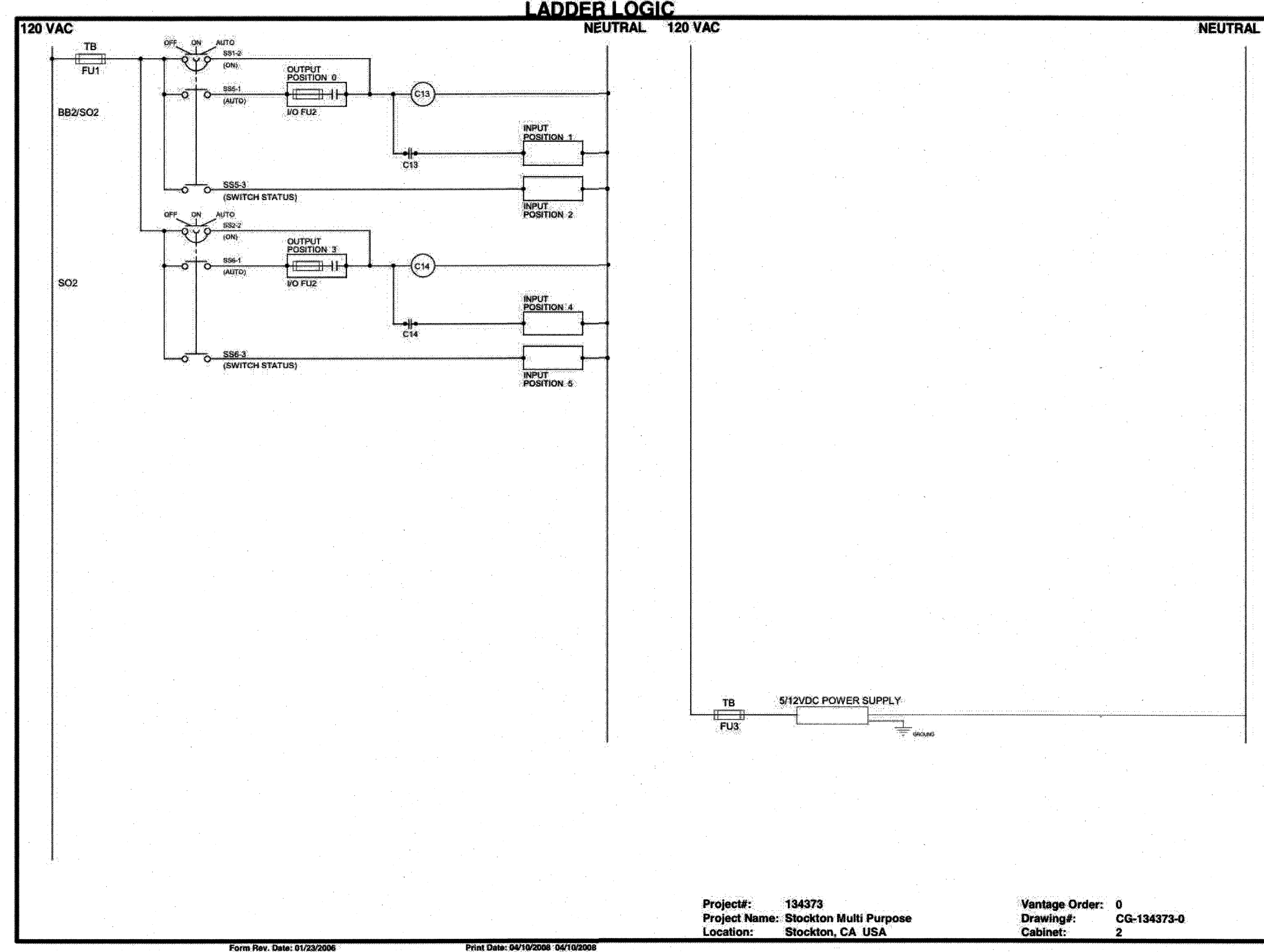
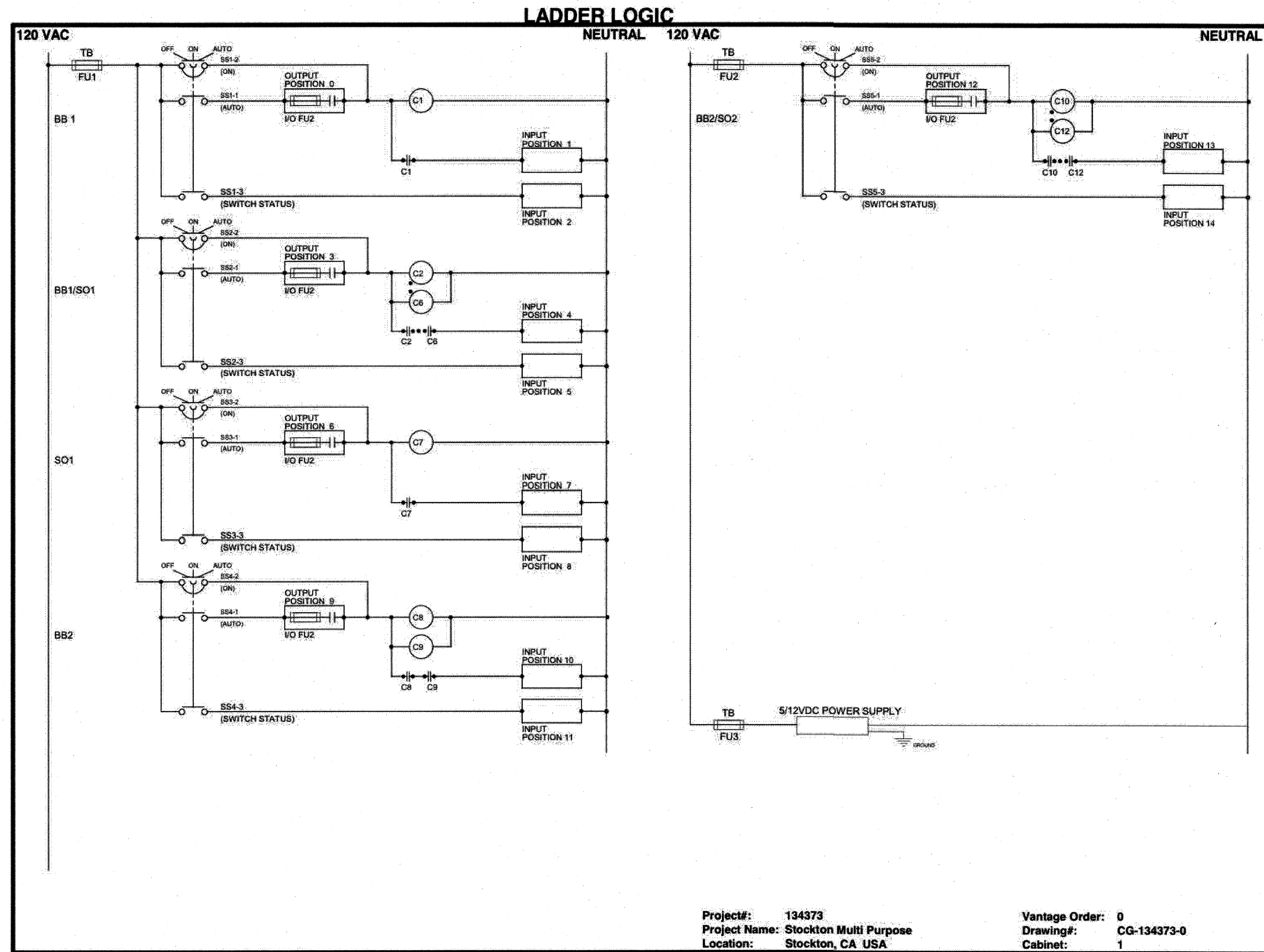


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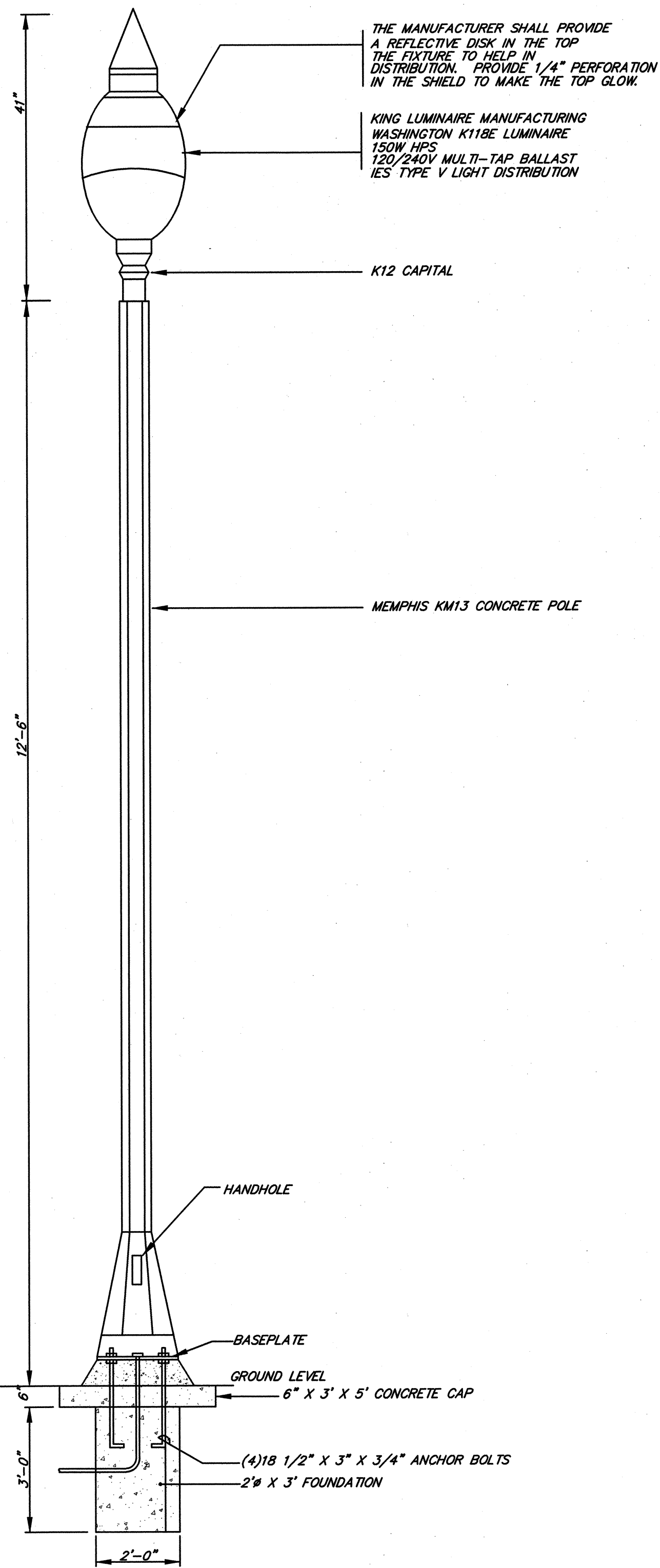
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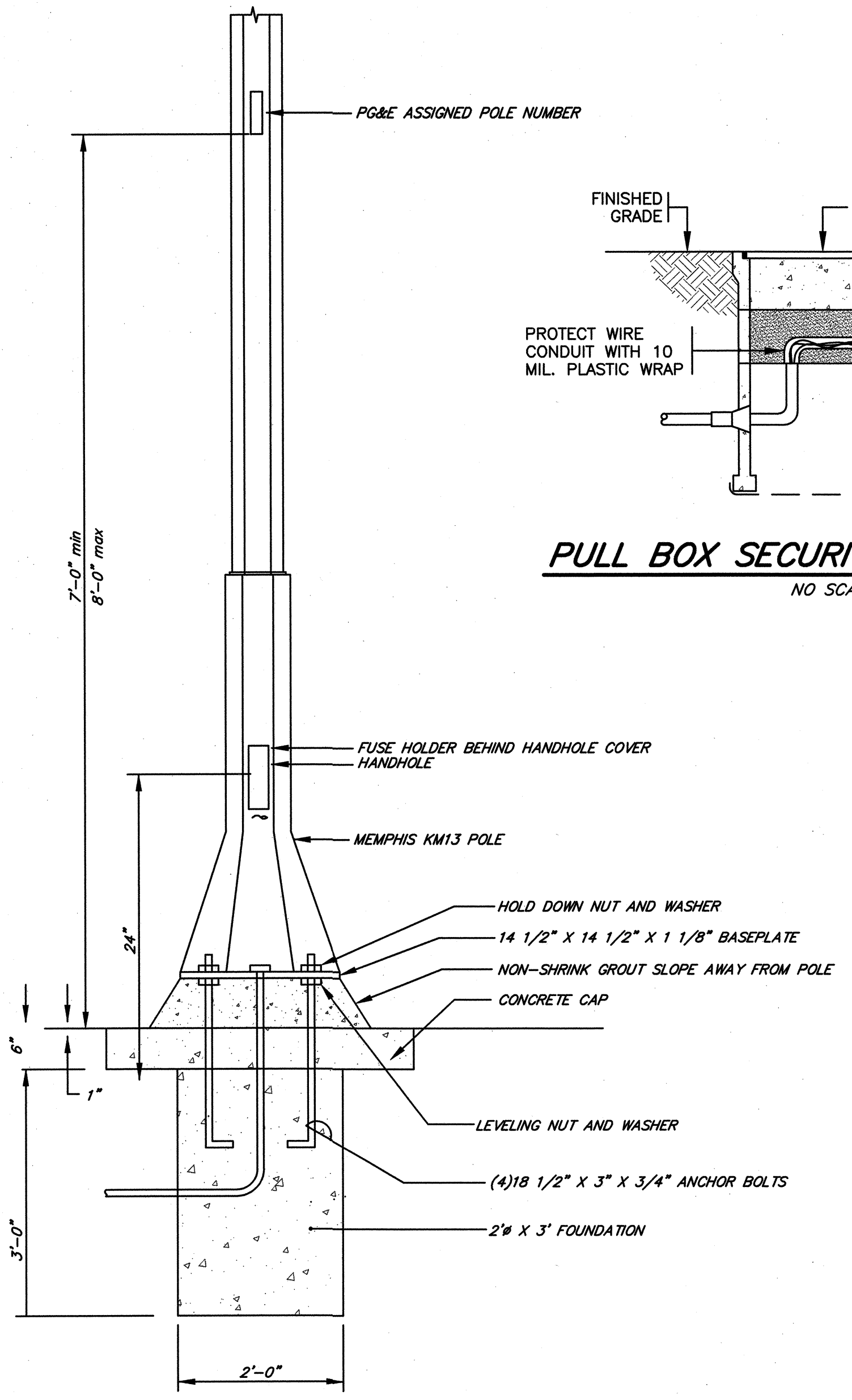
CONTROLS

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

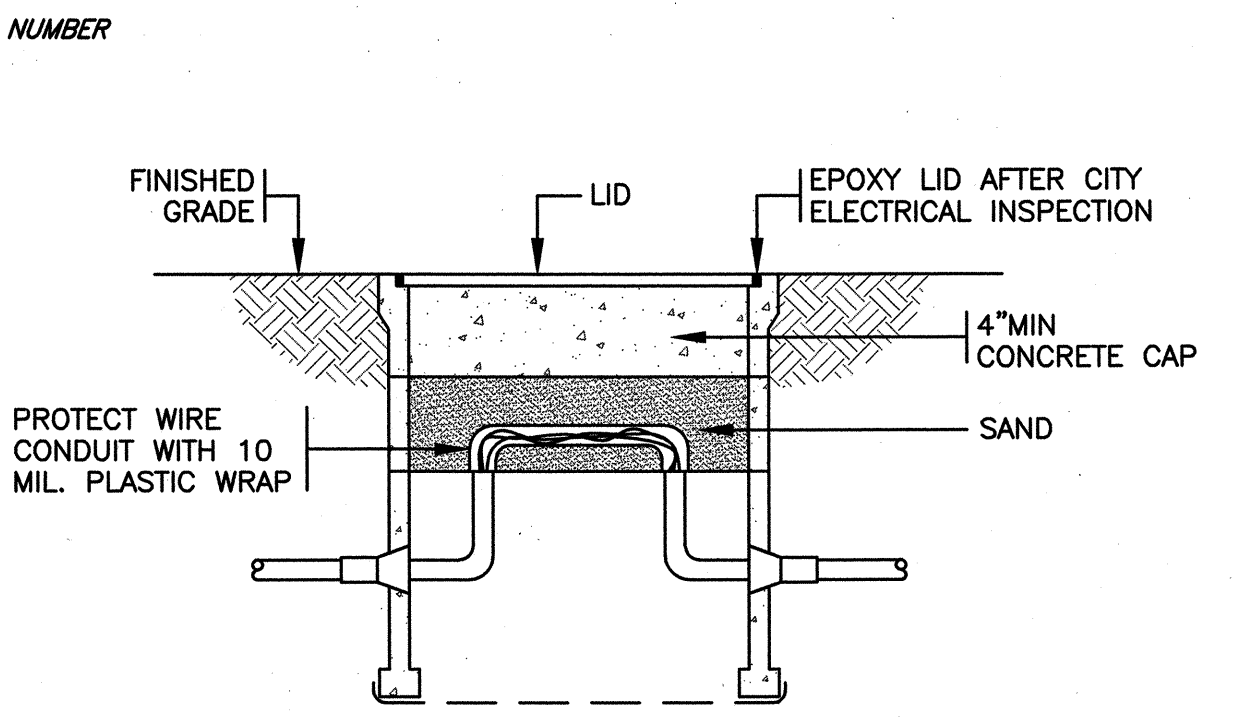
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 DRAWN BY: BA
 CHECKED BY: [Signature] CITY LANDSCAPE ARCHITECT
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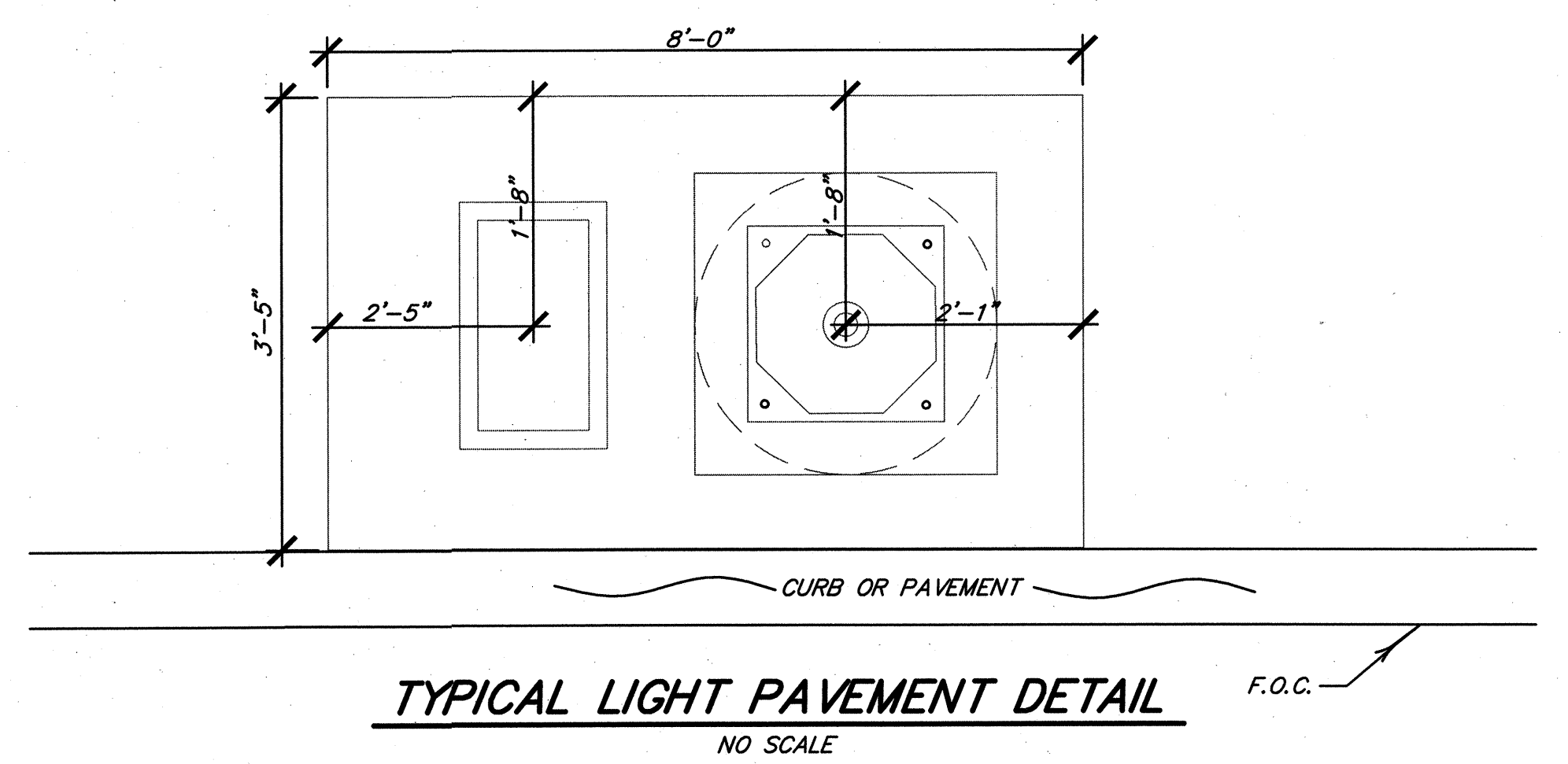
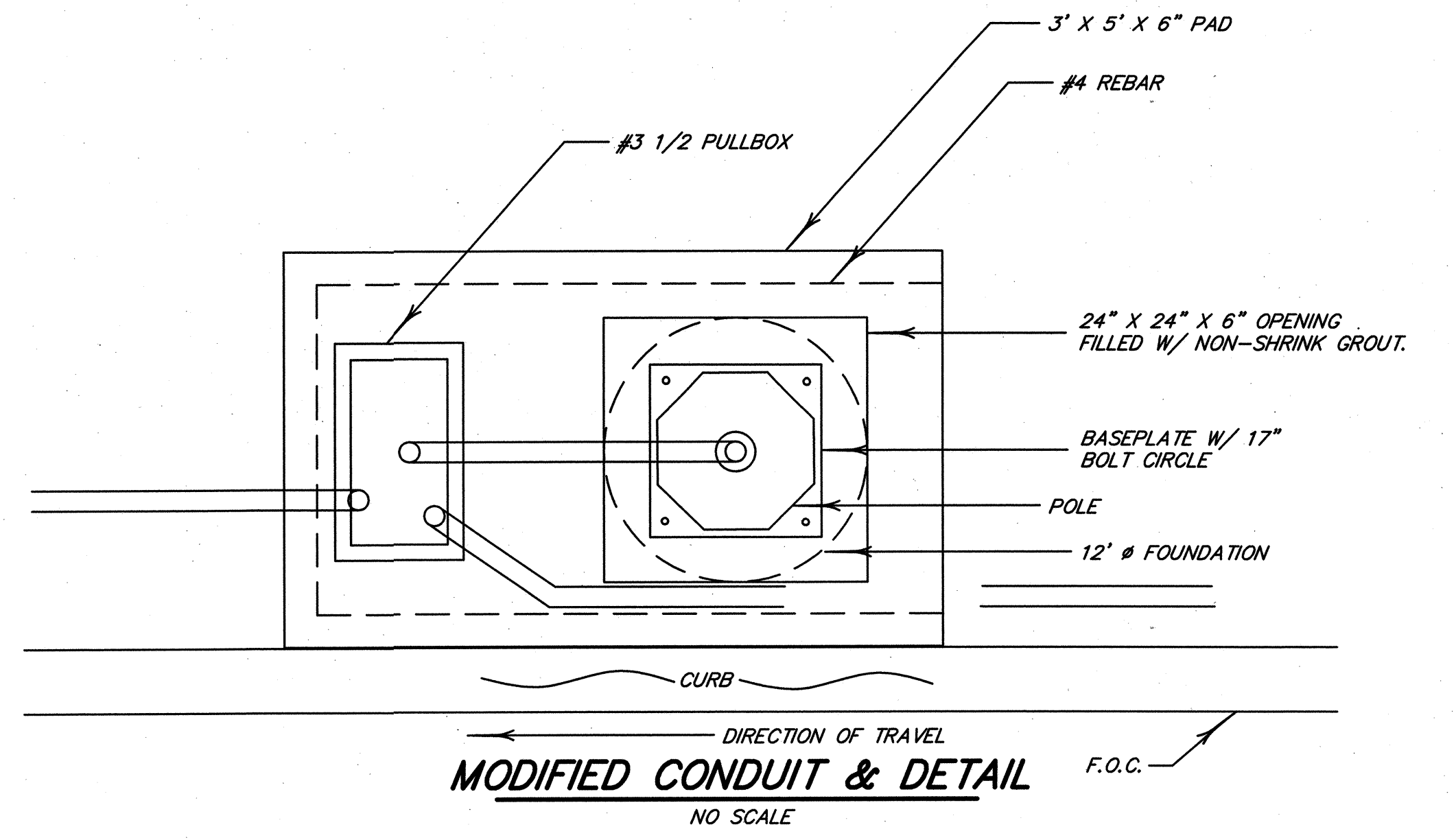
FIXTURE "S" POLE AND FOUNDATION DETAIL
NO SCALE



FOUNDATION DETAIL
NO SCALE



PULL BOX SECURITY TYPICAL ALL
NO SCALE



NOTES:

ALL WORK SHALL CONFORM TO THE 2007 CALIFORNIA ELECTRICAL CODE AND SHALL BE BUILT PER CITY OF STOCKTON CODE.

ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE PUBLIC WORKS OPERATIONS AND MAINTENANCE, SUSAN KRIETEMEYER [(209) 937-8884] FOR THE ENERGIZATION OF WALKWAY LIGHTS. IN ADDITION HE/SHE SHALL DELIVER TO THE PROJECT INSPECTOR, TWO MYLAR AS-BUILTS UPON REQUEST FOR ENERGIZATION.

CONTRACTOR SHALL STENCIL EACH POLE WITH A NUMBER ASSIGNED BY PG&E AND SHOW ANY ADDITIONAL POLES NOT ALREADY NUMBERED ON THE AS-BUILT DRAWINGS. CONTRACTOR SHALL OBTAIN A NUMBER FROM PG&E FOR ANY SUCH POLES. NUMBERS SHALL BE STENCILED IN WHITE EPOXY ENAMEL. NO LOWER THAN 7'-0" FROM THE GROUND AND NO HIGHER THAN 8'-0". NUMBER SIZE SHALL BE AS REQUIRED BY PG&E. CONTRACTOR SHALL CONTACT PG&E IMMEDIATELY UPON AWARD OF CONTRACT FOR COORDINATION OF SITE ELECTRICAL SERVICE.

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING PREPARATION OF AS-BUILT CHANGES FOR SUBMISSION TO PG&E.

ALL CONDUIT SHALL BE INSPECTED AND APPROVED BY CITY BUILDING OFFICIAL PRIOR TO BURIAL.



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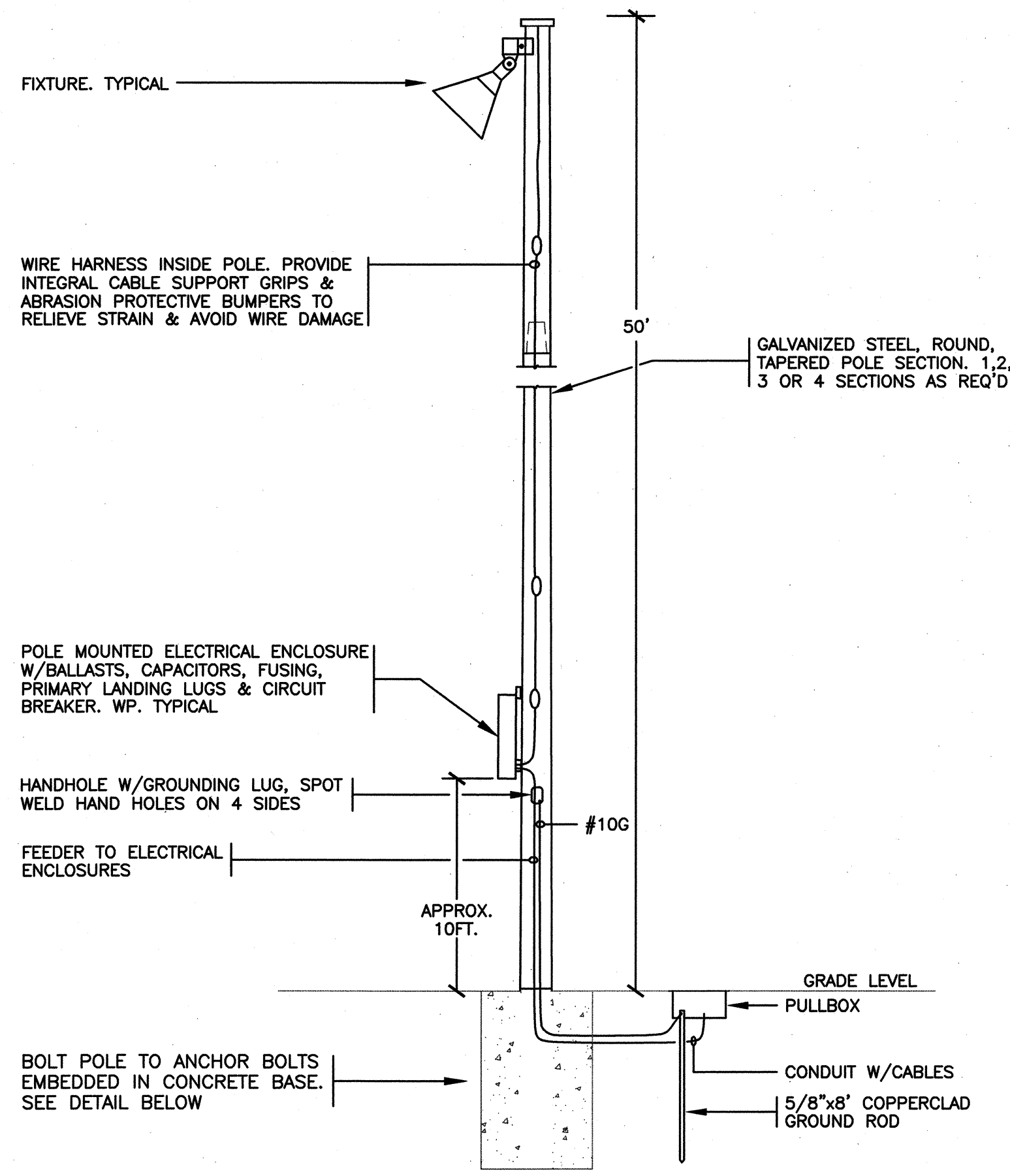
ELECTRICAL DETAILS

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

SCALE AS SHOWN APPROVED BY: 7/12/12 SHEET NO. E9

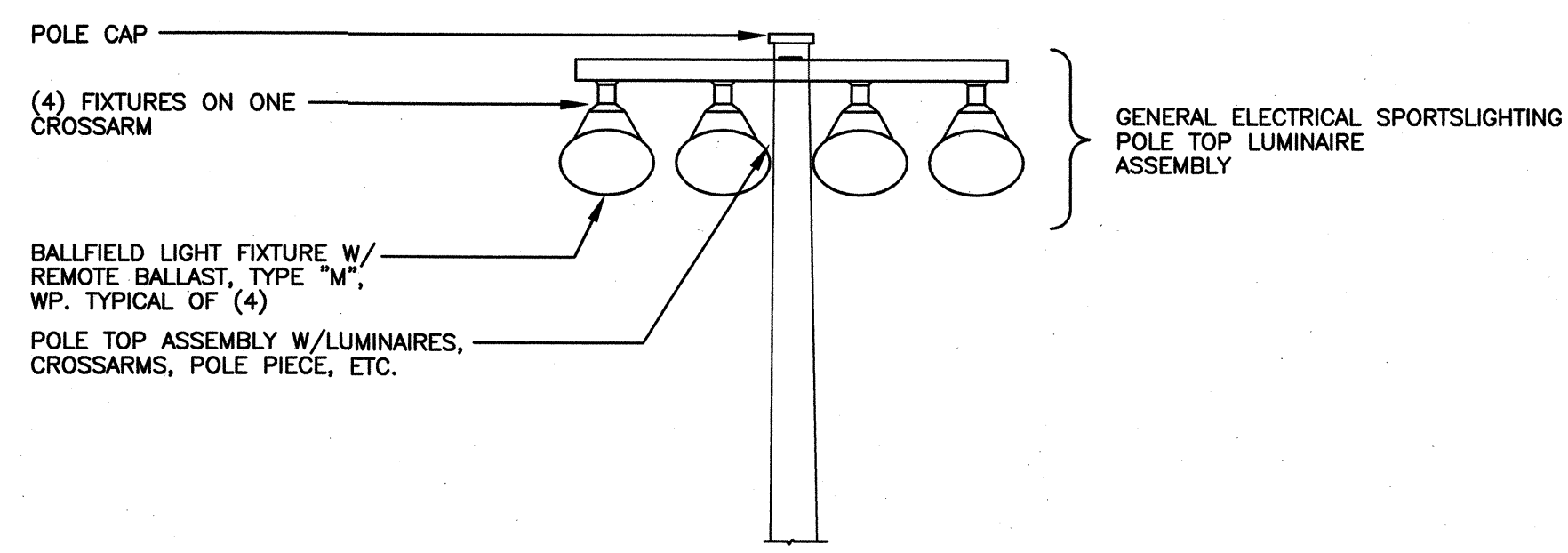
DESIGNED BY RCS DATE
DRAWN BY BA # OF 28 SHEETS

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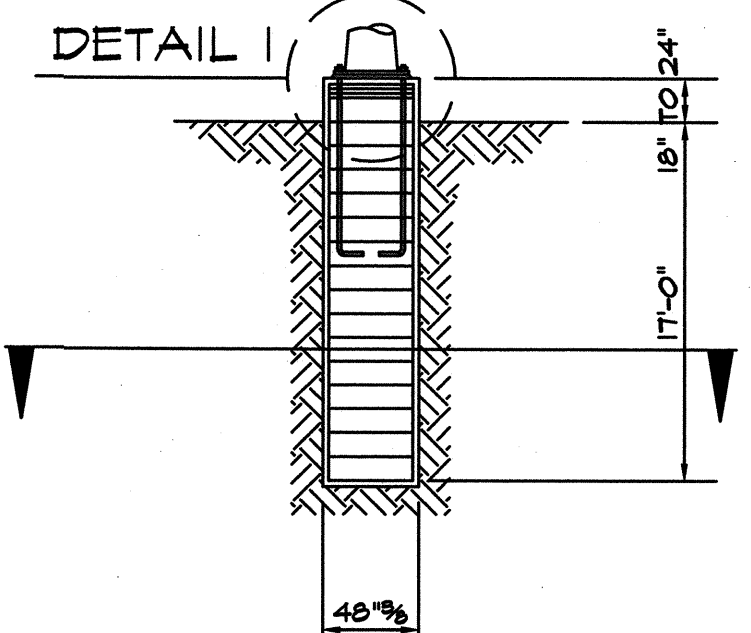
TYPICAL POLE : SIDE VIEW

NTS
POLE "A2" SIMILAR



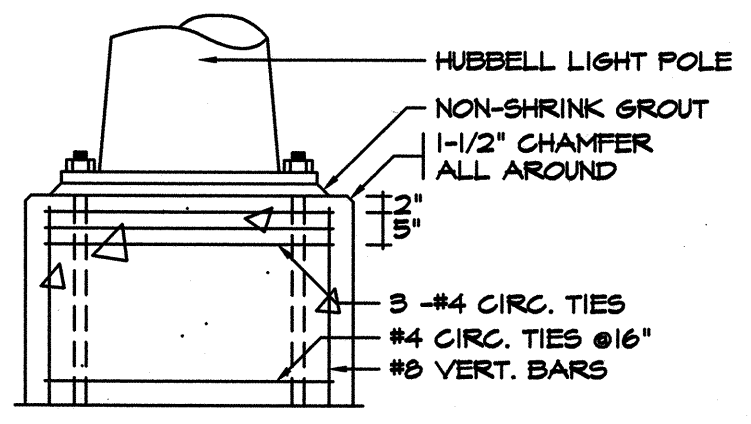
TYPICAL POLE TOP: FRONT VIEW

NTS

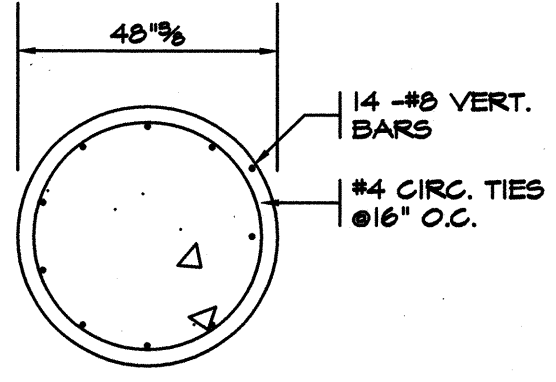


ELEVATION

- GENERAL NOTES & SPECIFICATIONS:**
- CONSTRUCTION OF REINFORCED CONCRETE DRILLED-IN CAISSON SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE, ACI 318-95.
 - EXCAVATION AND PREPARATION FOR CAISSON, PLACING OF CONCRETE SHALL BE PER SECTION 205-3-3.2 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 - ALLOWABLE SOIL PRESSURE IS FURNISHED BY NEIL O. ANDERSON & ASSOCIATES, INC. IN THEIR GEOTECHNICAL INVESTIGATION REPORT, DATED MAY 25, 1999.
 - CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS. PROVIDE TESTING AGENCY FOR SPECIAL INSPECTION OF CONCRETE.
 - REINFORCING STEEL SHALL BE DEFORMED, INTERMEDIATE GRADE, CONFORMING TO ASTM A615, GR. 60.
 - DESIGN LOADS ARE BASED ON 80 MILE PER HOUR WIND, EXPOSURE C AND SPORTSLIGHTING DESIGN NUMBER S-R-22-A-080.



DETAIL I



SECTION A-A

POLE ANCHORAGE

PROVIDE DEFERRED APPROVAL SUBMITTAL DRAWINGS OF FOOTINGS STAMPED BY A CALIFORNIA REGISTERED STRUCTURAL ENGINEER TO MEET CALIFORNIA TITLE 24

POLE/HEAD SCHEDULE

POLE	CIRCUITS	HEIGHT	# OF 1500 W HEADS
A1	1	60'	3
A2	1	60'	3
A3	1	60'	3
A4	1	60'	3
B1	1	60'	6
B2	1	60'	3
B3	1	60'	8
B4	2	80'	13
S1	3	80'	17
S2	1	70'	6
S5	1	70'	7

ELECTRICAL SYMBOLS

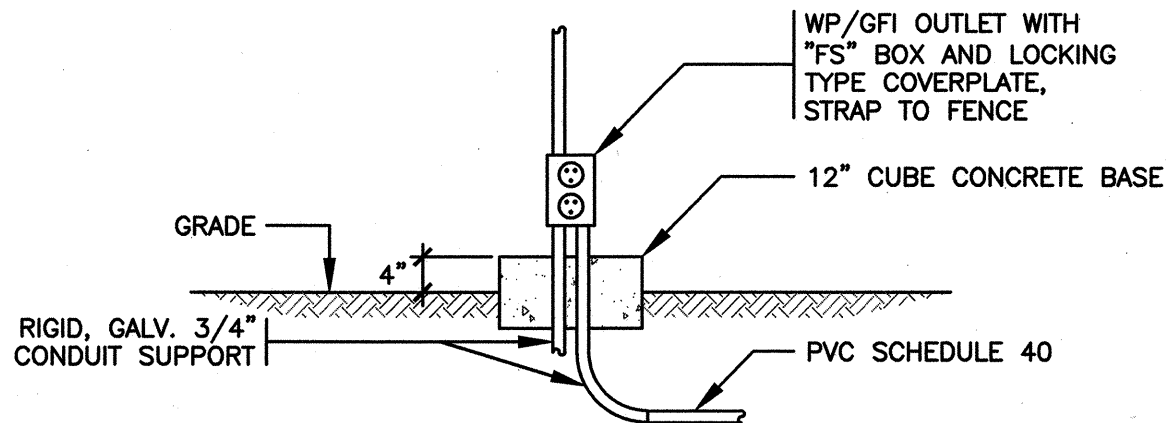
- FLUORESCENT LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- CEILING LIGHT FIXTURE
- WALL BRACKET LIGHT FIXTURE
- SITE/PARKING LOT LIGHT FIXTURE
- ALTERNATE DESIGNATION OF LIGHT FIXTURE SHOWING TYPE & LAMPS
- LIGHT SWITCH - SPST UP 48" U.O.N.
- 120 VOLT DUPLEX WALL OUTLET UP 18" U.O.N.
- 120 VOLT FOURPLEX OUTLET
- JUNCTION BOX
- CONDUIT WITH INSULATED GROUND WIRE
- CONDUIT CONCEALED IN FLOOR OR UNDERGROUND
- DISTRIBUTION PANEL
- LIGHTING PANEL
- SIGNAL CABINET AS DESIGNATED
- PULL BOX
- POWER PEDESTAL
- IRRIGATION CONTROLLER
- TRANSFORMER
- GROUND ELECTRODE

CAP. LETTER=TYPE
SM. LETTER=SWITCHING NUMBER=CIRCUIT NO.

MIN. SIZE=3/4" C
TICS=NO OF #12 WIRES
NO TICS=2#12 U.O.N.

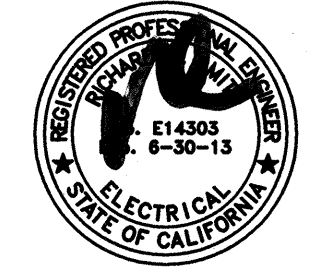
ELECTRICAL ABBREVIATIONS

- A.F.G. ABOVE FINISHED GRADE
- A.F.F. ABOVE FINISHED FLOOR
- UG UNDERGROUND
- NL NIGHT LIGHT
- WP WEATHERPROOF
- CO CONDUIT ONLY
- C CONDUIT
- U.O.N. UNLESS OTHERWISE NOTED
- NO. NUMBER
- MIN. MINIMUM
- MAX. MAXIMUM
- A, AMP AMPERE
- W/ WITH
- GFI GROUND FAULT INTERRUPTER
- & AND
- (e) EXISTING
- (R) REMOVE
- A.I.C. AMPERE INTERRUPTING CAPACITY
- GRD. GROUND
- V VOLT
- CKT. CIRCUIT
- KW KILOWATT
- KVA KILOVOLT AMPERE
- SP SPACE
- CU COPPER
- AL ALUMINUM
- LC LIGHTING CONTACTOR
- PB PULL BOX



WEATHERPROOF OUTLET DETAIL

NTS



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MATT EQUINOA PARK PHASE II

BASEBALL FIELD DETAILS

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

SCALE AS SHOWN
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CHECKED BY
RECORD DWGS.

APPROVED BY: 7/12/12
DATE

CITY LANDSCAPE ARCHITECT
STOCKTON, CALIFORNIA

SHEET NO. E10
28 OF 28 SHEETS
PROJECT NO.