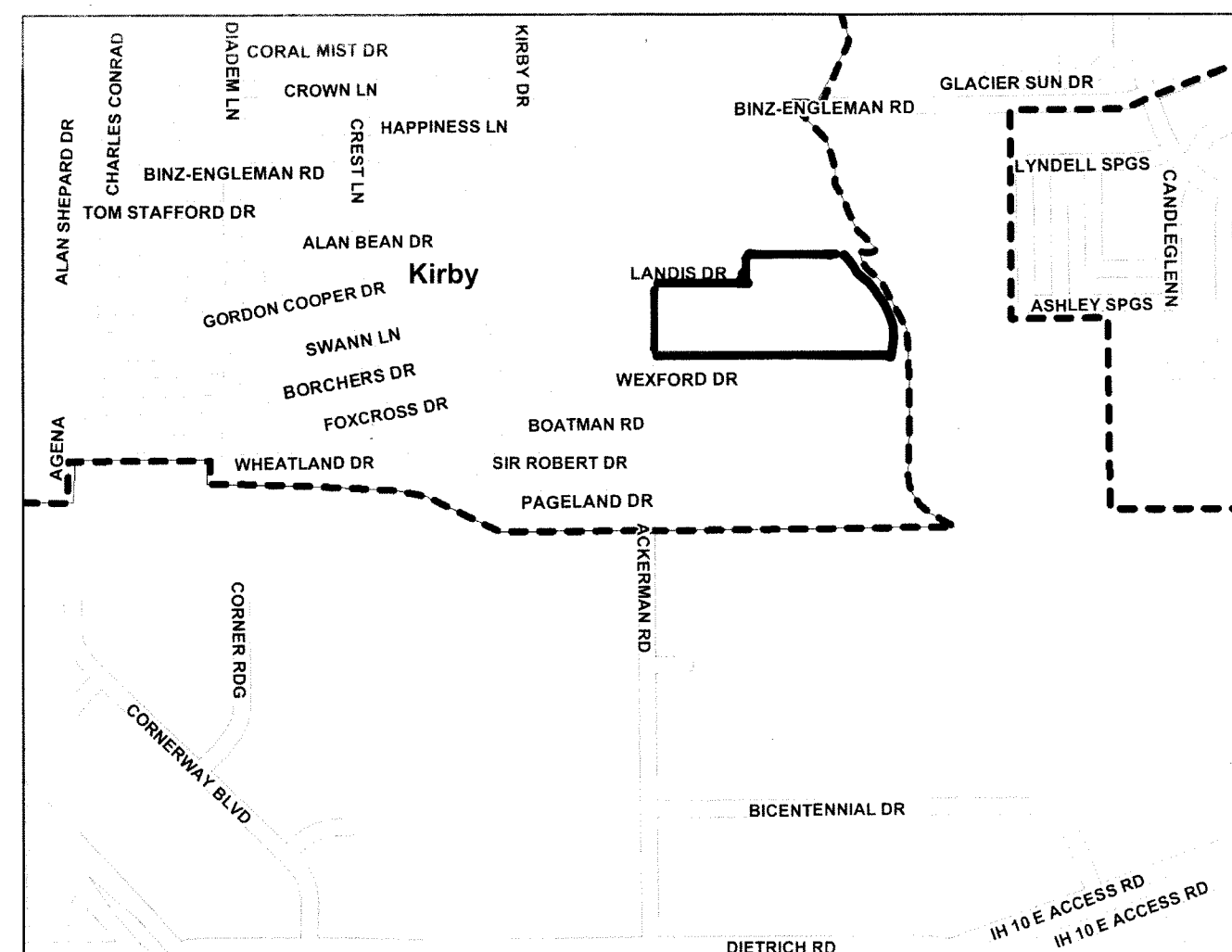


N00°05'06"W

108.01'

25' BUILDING SETBACK LINE

LOCATION MAP



Future Parking

Future Parking

Future Addition

LOT BLOCK
(10.163 ACRES)

250 PARKING SPACES

Plant Materials Schedule

item	common name	scientific name	specifications
CE	Cedar Elm	Ulmus crassifolia	1 3/4" cal., 7' - 9' tall, BB/CT
LO	Live Oak	Quercus virginiana	1 3/4" cal., 7' - 9' tall, BB/CT
MXS	Mexican Sycamore	Platanus Mexicana	1 3/4" cal., 7' - 9' tall, BB/CT
SOK	Shumard Oak	Quercus shumardi	1 3/4" cal., 7' - 9' tall, BB/CT
CBH	Compact Burford Holly	Ilex cornuta burfordi compacta	21" tall, 5 gallon
MFP	Mediterranean Fan Palm	Chamaerops humilis	27" tall, 10 gallon
OLE	Hardy Red Oleander	Nerium oleander Hardy Red	33" tall, BB/CT
RC	Red Crapemyrtle	Lagerstroemia indica Watermelon	1 1/4" cal., 7' - 9' tall, 10 gallon
TSG	Texas Sage	Leucophyllum frutescens	24" tall, 5 gallon
AJ	Asiatic Jasmine	Trachelospermum asiaticum	1 gallon @ 15" o.c.
NGL	New Gold Lantana	Lantana camara New Gold	4" pots
RLN	Radiation Lantana	Lantana camara Radiation	4" pots
GRS	Bermudagrass	Cynodon dactylon	hydroseed with pre-emergence fert.

50' ACCESS EASEMENT

EX. PLANT COVER ALONG FELKE LINE TO REMAIN

City of Kirby Landscape Ordinance Compliance:

Item	required	actual
PARKING LOT TREES:		
Front Lots (102 spaces)	11 trees	13 trees
Side Lot (48 spaces)	5 trees	12 trees
Rear Lot (100 spaces)	10 trees	14 trees

TOTALS 26 trees 41 trees

PARKING SCREENING:

Street Side:	shrubs fronting all parking
North Property Line	trees and shrubs in 4' wide buffer
South Property Line	existing vegetation to remain

Maintenance of Installed Plantings:

All installed plant materials (trees, shrubs, groundcovers, perennials, florals, grass, etc.) shall be maintained by the landscape contractor until accepted by the Owner. Maintenance shall include watering, weeding, fertilizing, pruning, etc. At the time of final acceptance, all plant materials shall be alive, in a healthy state of growth and meeting size requirements as specified on the drawings as well as normal horticultural practice standards. Any diseased, dead or partially dead plants shall be immediately replaced. All plantings shall be guaranteed for one year from the date of final acceptance.



TRUE VISION CHURCH

KIRBY, TEXAS

ACKERMAN ROAD

Peter B. Olfers and Associates
Landscape Architecture Research Planning
6322 Sovereign, Suite 137B San Antonio, Texas 78229
phone (210) 349-9336 FAX (210) 349-3820

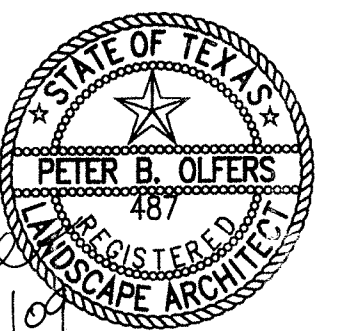
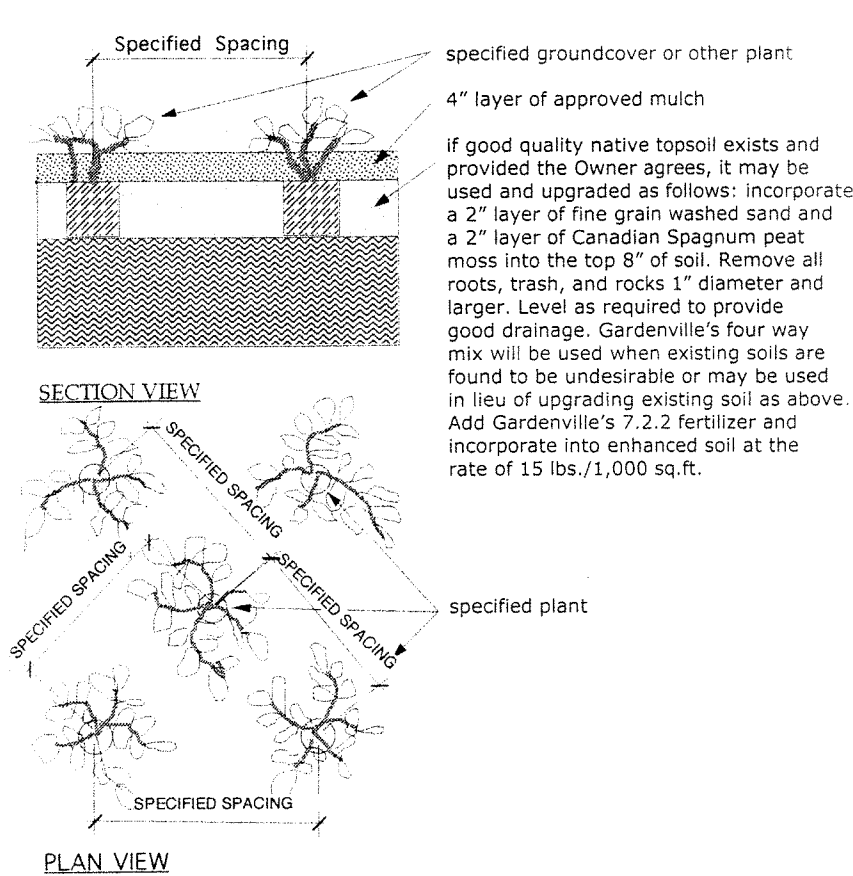
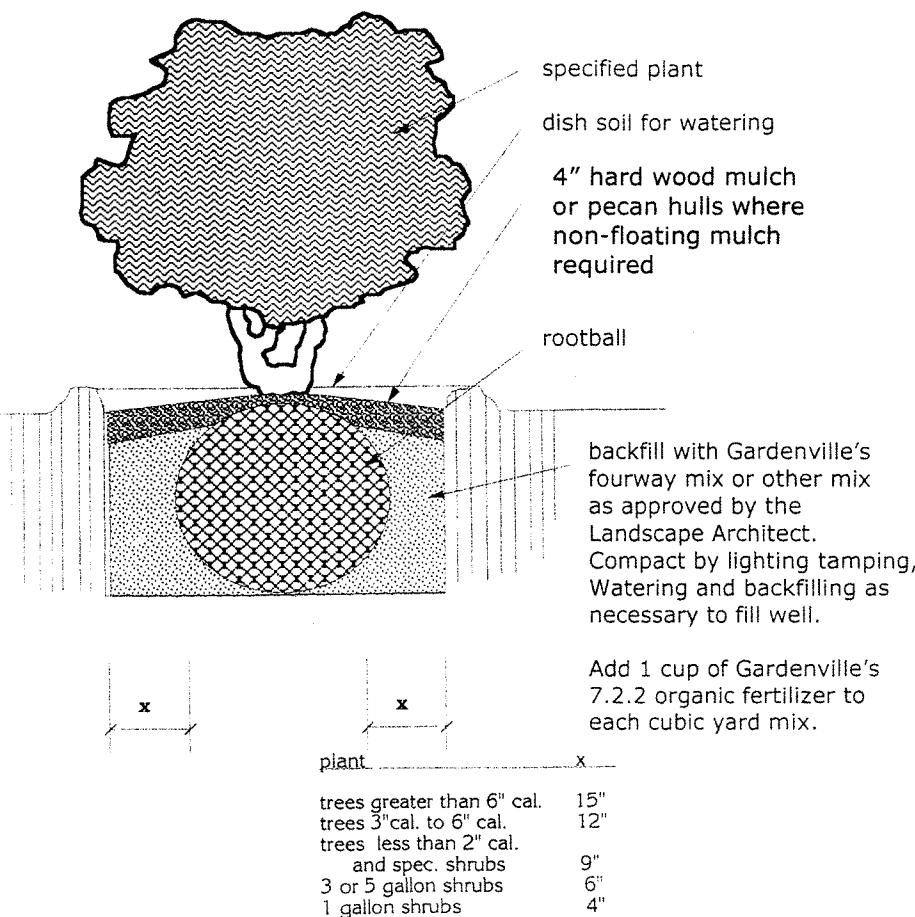
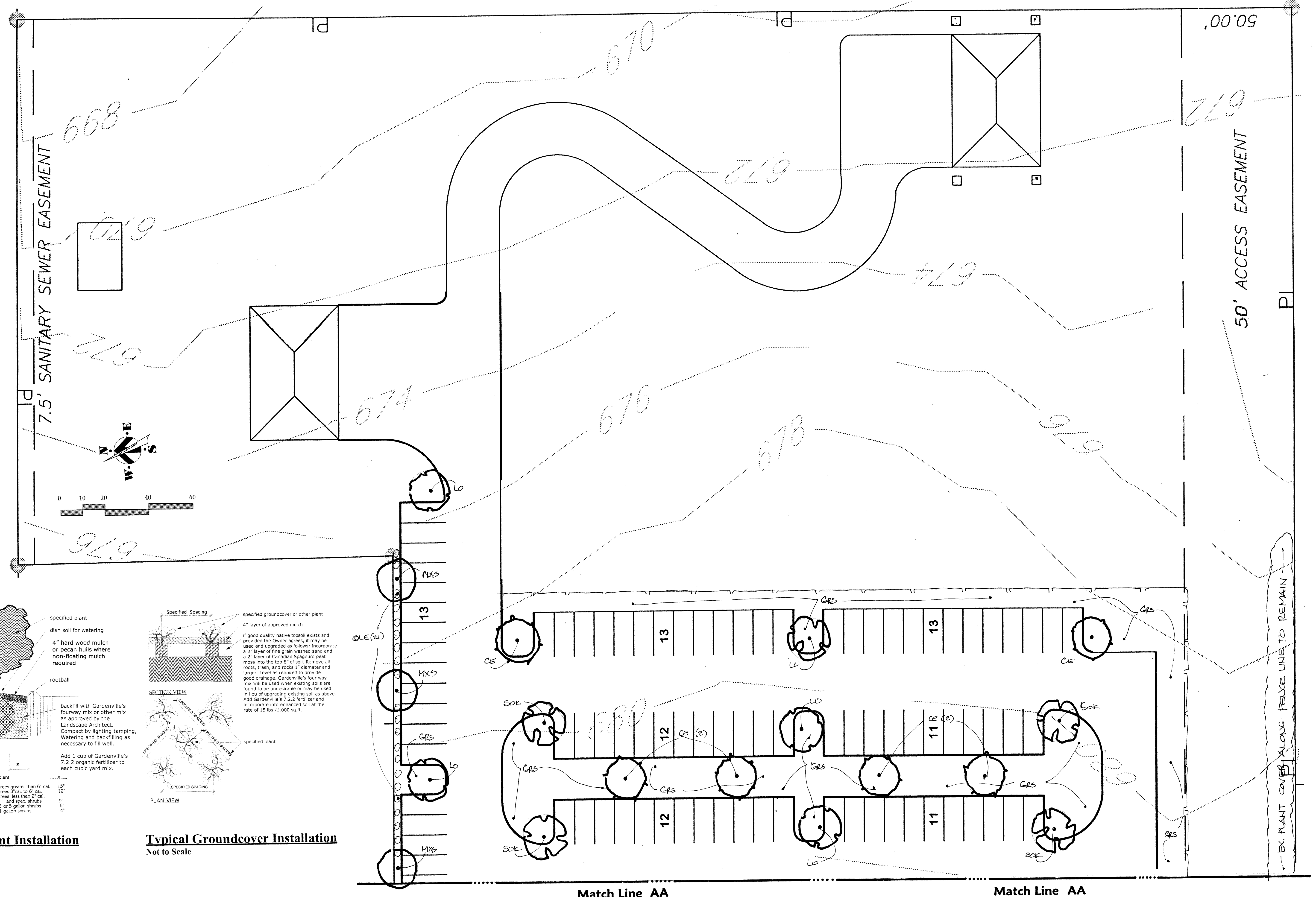


project
date
sheet

9156
8/13/09

L1

LANDSCAPE PLAN



LANDSCAPE PLAN

PETER B. OLFERS & ASSOCIATES
Landscape Architecture

6322 Sovereign, Suite 1378
San Antonio, Texas 78229
phone (210) 349-9336

Peter B. Olfers and Associates

☐ Research ☐ Planning
☐ Research ☐ Planning

6322 Sovereign, Suite 1378
San Antonio, Texas 78229
phone (210) 349-9336

TRUE VISION CHURCH
ACKERMAN ROAD
KIRBY, TEXAS

project 9156
date 8/13/09
sheet **L2**

N00°05'06"W

408.01'

25' BUILDING SETBACK LINE

Meter Assembly: in line as listed below

- 1) 1" water meter
- 2) 1" pressure reducing valve (if required)
- 3) strainer (cleanable)
- 4) 1" double check valve
- 5) 1 1/2" master valve

IRRIGATION LEGEND

Schedule 40 PVC Main
Class 200 PVC Lateral
Hunter Series I-20 Rotor, 04 nozzle
Hunter Series INST (06,12) pop-up
Hunter Series PGV electric valve in box
Future Electric Valve (Provide wire to controller)

Hunter 32 station ICC controller in weatherproof metal box with key lock. Connect to valves, rainstat and electrical supply as required.

250 PARKING SPACES

Lateral Lines Data

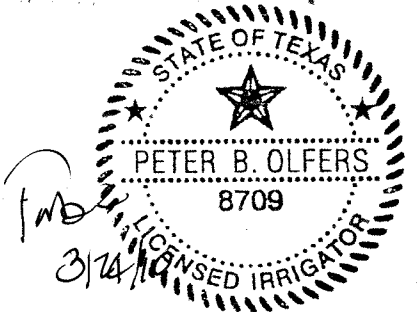
section	valve size	gpm	heads	1/2" water coverage	section	valve size	gpm	heads	1/2" water coverage
1	1 1/2"	30.0 gpm	sprays	22 minutes	15	1"	10.0 gpm	sprays	22 minutes
2	1 1/2"	25.4 gpm	sprays	22 minutes	16	1 1/2"	29.6 gpm	sprays	22 minutes
3	1 1/2"	23.6 gpm	sprays	22 minutes	17	1 1/2"	17.8 gpm	sprays	22 minutes
4	1 1/2"	28.0 gpm	sprays	22 minutes	18	1 1/2"	22.1 gpm	sprays	22 minutes
5	1 1/2"	28.4 gpm	sprays	22 minutes	19	1 1/2"	22.5 gpm	sprays	22 minutes
6	1 1/2"	29.6 gpm	sprays	22 minutes	20	1 1/2"	22.8 gpm	sprays	22 minutes
7	1 1/2"	29.2 gpm	sprays	22 minutes	21	1 1/2"	28.0 gpm	sprays	22 minutes
8	1"	13.7 gpm	sprays	22 minutes	22	1 1/2"	35.0 gpm	rotary	40 minutes
9	1 1/2"	24.0 gpm	sprays	22 minutes	23	1 1/2"	31.5 gpm	rotary	40 minutes
10	1 1/2"	24.0 gpm	sprays	22 minutes	24	1 1/2"	21.0 gpm	sprays	22 minutes
11	1 1/2"	26.0 gpm	sprays	22 minutes	25	1 1/2"	27.2 gpm	sprays	22 minutes
12	1 1/2"	26.7 gpm	sprays	22 minutes	26	1 1/2"	27.2 gpm	sprays	22 minutes
13	1 1/2"	27.7 gpm	sprays	22 minutes	27	1 1/2"	28.0 gpm	rotary	40 minutes
14	1 1/2"	23.0 gpm	sprays	22 minutes	28	1 1/2"	24.5 gpm	rotary	40 minutes

50' ACCESS EASEMENT

LOT BLOCK (10.163 ACRES)

N89°59'00"E

109.711'



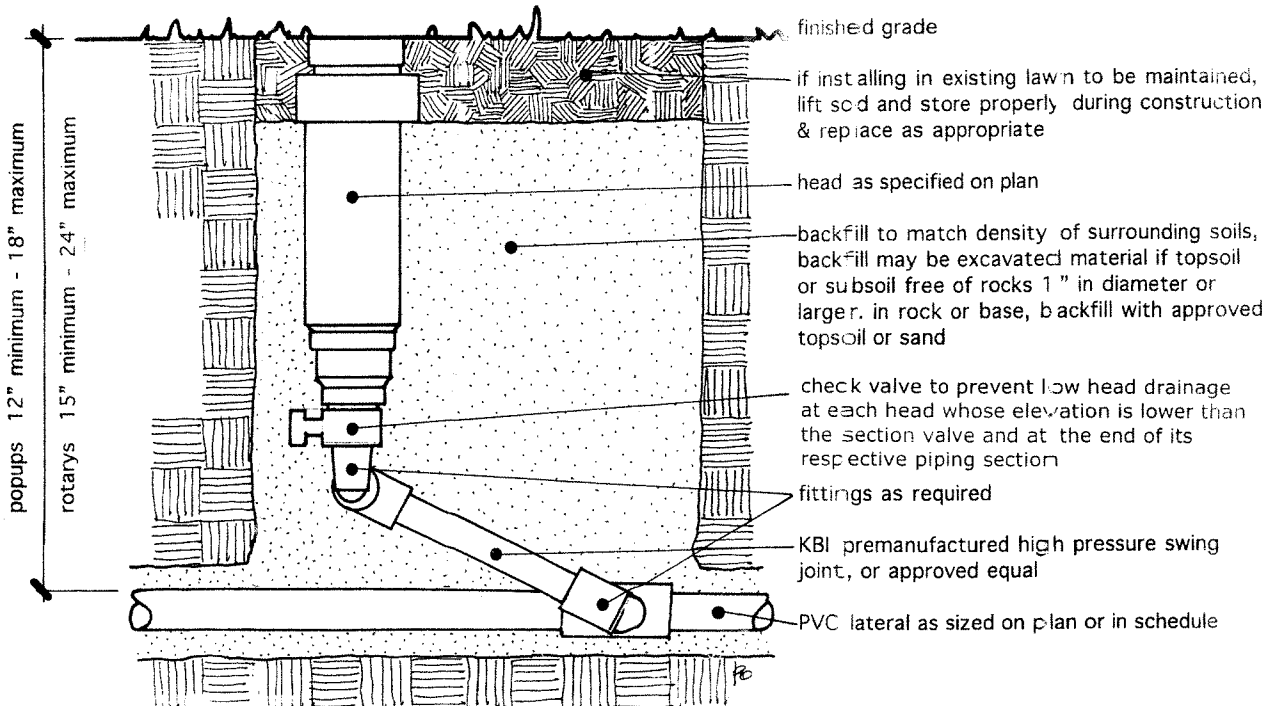
IRRIGATION PLAN

TRUE VISION CHURCH
ACKERMAN ROAD
SAN ANTONIO, TEXAS

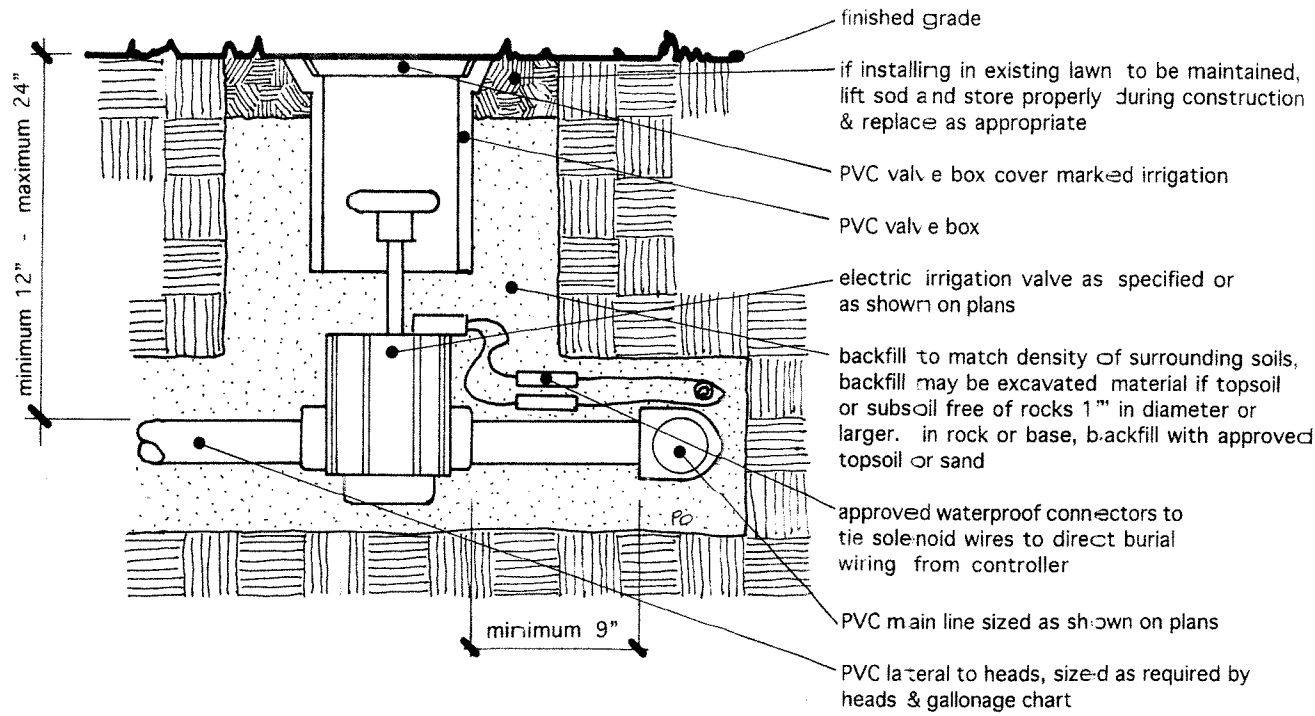
Peter B. Olfers and Associates
Landscape Architecture Research Planning
6322 Sovereign, Suite 137B
San Antonio, Texas 78229
phone (210) 349-9336 FAX (210) 349-3820



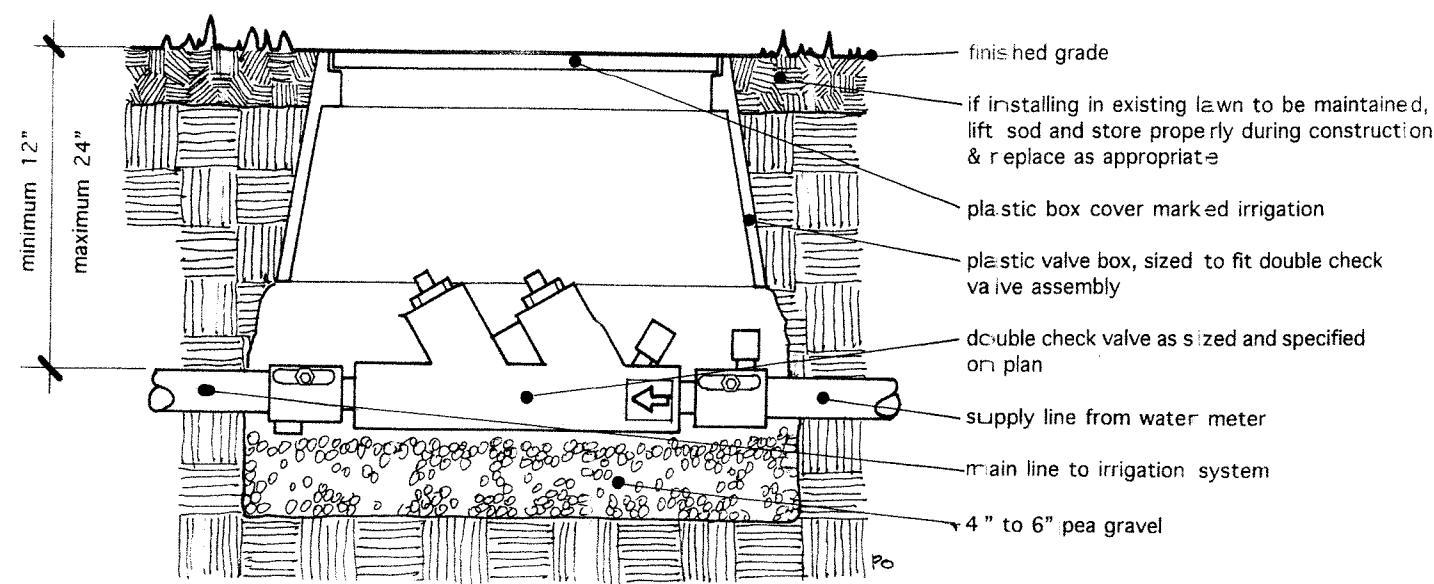
project 9156
date 3/24/10
sheet L3



Typical Head Installation
(with check valve where required)
Not to Scale



Typical Electric Valve Installation
Not to Scale



Double Check Valve In Box
Not to Scale

Sprinkler Heads & Valves Data:

Pop-up Spray Heads: Hunter Pro-S Series Pop-up Spray (4\"/>
--

Bubblers: Hunter PCN nozzle in PRO-S body
(acceptable alternates: Toro FB nozzles in 570 body, Rainbird 1400 nozzle in 1800 body, Weathermatic 102 nozzle in LX body)
360° 4-3 psi 1.0 gpm

Electric Valves: Hunter PGV Series

0.1 gpm to 17.5 gpm	1\"/>
---------------------	-------

Piping Size Requirements: (based on Class 200)

no 1/2\"/>

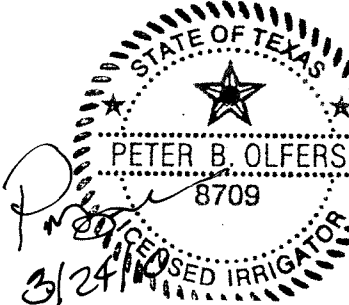
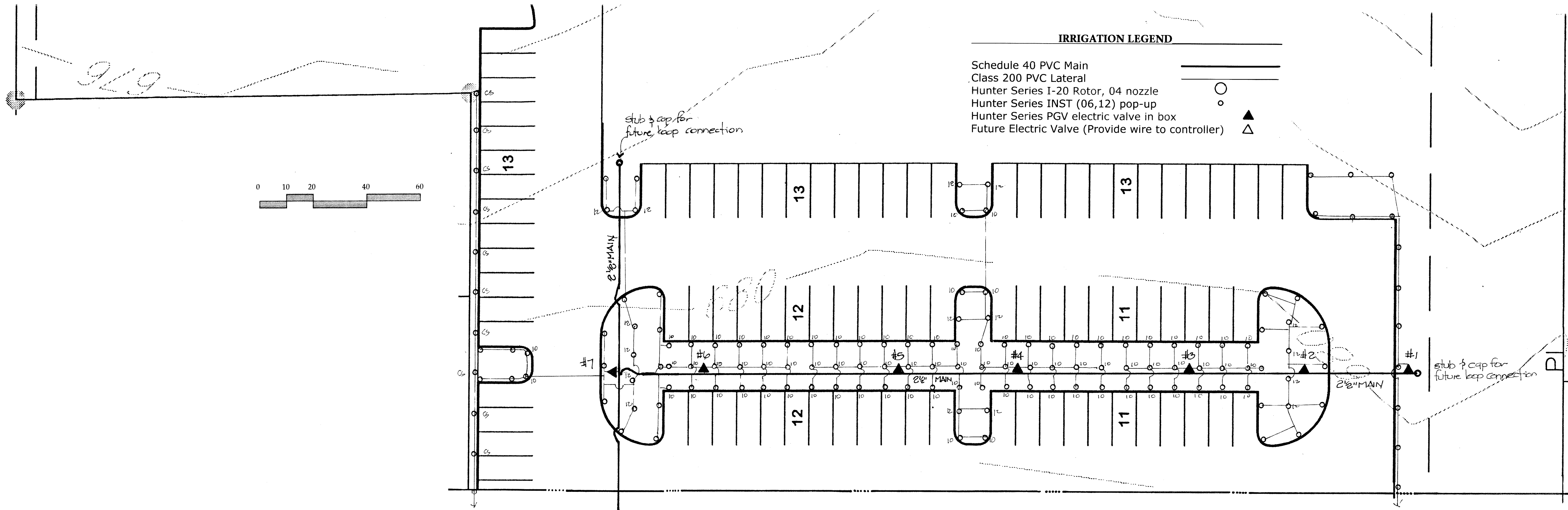
Special Spray Head Performance Note: In areas where normal spray from a pop-up will pass more than 6\"/>

Irrigation Installation Notes:

- The contractor shall install an **electric controller** as identified on the plan. The controller shall be mounted between 42\"/>
- The controller shall be connected to a **rainstat** override system which will skip the watering cycle whenever adequate rain has occurred. The rainstat shall be exterior mounted as near as possible to the controller, and in a location where overhead obstructions such as trees, building overhangs, signs, etc. will not affect performance. Typical mounting will be at the eave edge.
- All **water pipe** shall be rigid PVC class 200 or better as noted on the plans. All **sleeves** shall be Schedule 40 rigid PVC and a minimum of 4\"/>
- Except where required as a component in the installation of a riser, **no 1/2\"/>**
- All pipe shall have a **minimum cover** of ten inches (10\"/>
- All irrigation parts/components will be **new equipment** at the time of installation and will conform to the latest specifications and catalog of the respective manufacturer.
- Each lateral shall have its lowest head in elevation equipped with a **low head drainage check valve**, either externally mounted on the sprinkler or internal (SAM type).
- Backfill** material will be free of rocks greater than 1\"/>
- The contractor shall be responsible for **removing** all debris, spoil, etc. and for properly **disposing** of off site.
- The irrigation contractor shall be responsible for **securing any and all construction permits** (if not secured by a general contractor) and shall be responsible for securing all inspections and approvals by appropriate governing bodies.
- All connections to domestic water systems (**water meters**) shall be made by appropriately licensed and certified individuals. A Licensed Irrigator shall oversee all installation. At the completion of installation, the same Licensed Irrigator who oversaw installation shall be responsible for any certifications to governmental agencies or other appropriate groups.
- After completion, the system shall be subjected to a **72 hour pressure test**. All leaks and other problems shall be corrected immediately.
- All sprinkler heads shall be installed a **minimum of 4\"/>**
- All trenching/digging within the **Root Protection Zone (RPZ)** of existing trees as identified by governmental agencies and counted as trees to be saved shall be completed by hand digging. No tree roots larger than 1\"/>
- The contractor shall be responsible for verifying the location of all other **underground utilities** and shall protect such utilities from damage, etc.

Sprinkler Irrigation Component Parts List

- Sprinkler Heads:**
Pop-up Spray Heads: select from following - Matched Precipitation Rates (MPR):
Hunter INST Series Toro 570 Series, MPR nozzles
Weathermatic LX Series, MPR
- Bubblers (select from following):
Hunter PCN nozzle in PRO-S body Toro FB nozzles in 570 body
Weathermatic 102 nozzle in LX body
- Small Radius Rotary Heads:
Hunter Series I-10/I-20 rotary
- Check Valve or Valve In Head (must install a minimum of one per each lateral):**
select from the following:
Initial QICV Check Valve Rainbird 1800-SAM-PRS
Toro 570 Series, Check-o-matic Hunter I Spray - CV
- Electric Valves, except Master Valve:** select from following:
Hunter PGV Series Weathermatic 11000CR Series
Intrint 700 Series
- Master Valves:** select from following:
Intrint 700 Series Hunter ICV Series
- Double Check Valve Assemblies:** select from following:
Conbraco Series 40-100 for 1/4\"/>
- Piping (White for normal applications, purple for reclaimed water):**
Mains: Schedule 40 PVC for 1/4\"/>
- Wiring:** All wire shall be Type UF with a minimum 4/64\"/>
- Wire Nuts and Waterproof Connectors:**
Wire nuts to be Type UF and approved for ground mount in irrigation systems
Waterproof connectors to be by 3M, King, or approved equal
- Valve Boxes:** select from following:
For electric valves, in-line valves, etc. DFW Model D-109
Ametek Economy Turf Box For double check valve assemblies and other large valves/meters
Ametek Meter Box DFW Model D-1200 or D-1800
- Controllers:** as specified on plans



IRRIGATION PLAN

Peter B. Olfers and Associates
 Landscape Architecture
 6322 Sovereign, Suite 137B
 San Antonio, Texas 78229
 phone (210) 349-9336
 Planning
 Research
 San Antonio, Texas 78229
 FAX (210) 349-3820



project
 date
 sheet 9156
 3/24/10
L4
 of

TRUE VISION CHURCH
 ACKERMAN ROAD
 SAN ANTONIO, TEXAS